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"CHEMICUS LONDON."

**Established in
ENGLAND, 1859.]**

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LONDON, E.C.

**Established in
[AUSTRALASIA, 1885.]**

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NOVEMBER 4, 1911.

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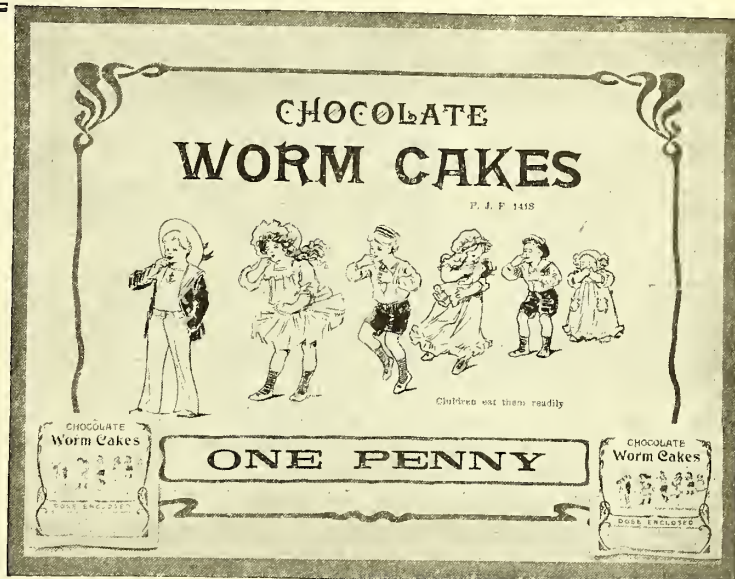
This showcard is an exact replica of our new

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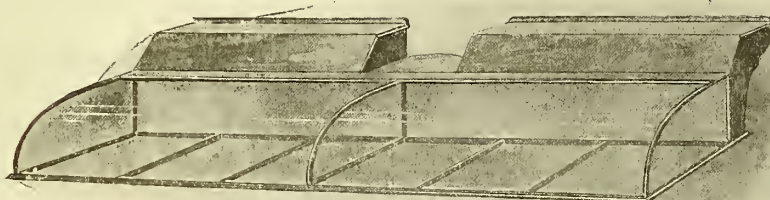
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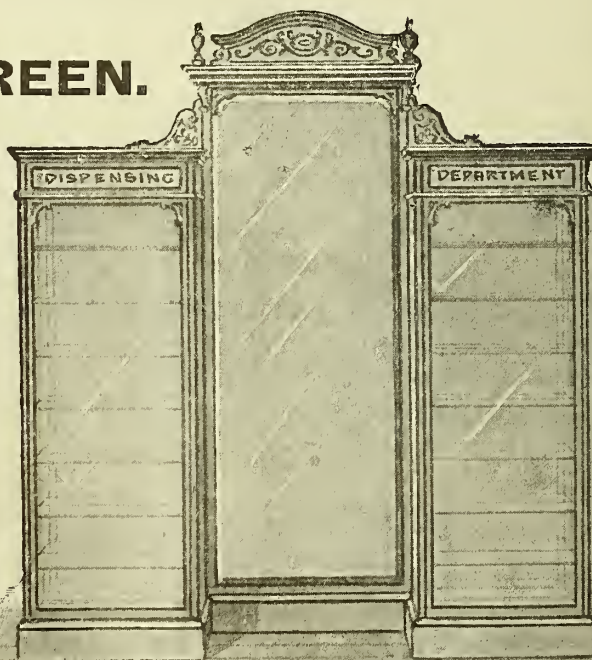
3 ft. long × 1 ft. 6 in. wide × 12 in. high to top of flat shelf	...	£3 3 0
4 ft. Ditto	...	4 4 0
5 ft. Ditto	...	4 15 0
6 ft. Ditto	...	5 10 0
7 ft. Ditto	...	6 10 0
8 ft. Ditto	...	7 10 0
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113d	do. do. 6 "	4/-	6d.
114b	LITTLE "BIG MEN," 12 in each box.	7/6	10½d.
114d	do. do. 6 "	4/-	6d.
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INDEX TO ADVERTISEMENTS IN THIS ISSUE.

HEAD OFFICE: 42 Cannon Street, London, E.C. Telegraphic Address: "CHEMICUS LONDON." Telephone No. 852, Bank.
BRANCH OFFICES: MELBOURNE, SYDNEY, AND ADELAIDE, AUSTRALIA.

The Arabic numerals (1 to 32) in this Index refer to Advertisements in front of the literary pages; the Advertisements following the literary pages are numbered in Roman numerals (i to xxx).

Page	Page	Page	Page
Alcock Mfg. Co. ....xxi	Day & Sons, Crewe, Ltd. ....xvii	London and Colonial Manfg. Co. ....25	Schutze, F., & Co., Ltd. ....xxvii
Allen, Stafford & Sons, Ltd. <i>Cover</i>	Delvendall & Kuntzel .....20	London College .....24	Sheath Bros. ....xliii
Alliance Drug & Chemical Co. ix	Denoual, J., & Co. ....iv	"Lu-Ku" Co. ....30	Singleton & Cole, Ltd. ....xxvii
Allison, J. R. B. <i>Col. Supp.</i>	Dodge & Oleott Co. ....26	McAdam & Tuckniss <i>Col. Supp.</i>	Slack, B. <i>Col. Supp.</i>
"Apollo" Liquorice Juice xxiii	Dowell, John .....xi	McKesson & Robbins .....20	Smith Bros. & Co. ....x
Ashton & Parsons, Ltd. ....xxix	Druff, Guy E. ....25	Marshall, Lorimer <i>Col. Supp.</i>	Smith, T. & H., Ltd. ....vii
Associated Bath Brick Manfrs. 25	Egglossa Manfg. Co. ....23	Mason Bros. & Chapman ....xvi	"Solazzi" Liquorice Juice ....x
Atkinson & Barker .....x	Electrolytic Alkali Co., Ltd. vii	Maw, S., Son & Sons .....10	Southall Bros. & Barclay, Ltd. ....14, 15
Ayrton, Saunders & Co., Ltd. x	Erasmic Co., Ltd. ....23	May, Roberts & Co., Ltd. ....xiv	Sparks, White & Co. ....vi
Bailey, W. H., & Sons .....xii	Euceryl, Ltd. ....22	Meffert, H., & Co. ....vi	Spatula, The .....24
Baird, J. ....29	Evans Sons Lescher & Webb, Ltd. ....xv	Millar, A., & Co., Ltd. ....xxii	Squire & Sons <i>Cover</i>
Baker, Parson C. <i>Col. Supp.</i>	Exchange Column <i>Col. Supp.</i>	Millard Bros., Ltd. ....xx	Standard Tablet & Pill Co., Ltd. <i>Cover</i>
Barker, R. W. <i>Text</i> 680	Fairechild Bros. & Foster.... <i>Cover</i>	Mumford, G. S., & Sons <i>Text</i> 680	Stevens, P. A. <i>Cover</i>
Bath & West of England Sch. 24	Farmer, F., & Co. ....xxvii	National Cash Register Co., Ltd. ....27	Stipendium Stopper Co. ....vii
Battley & Watts .....x	Fentiman, A. G. ....xxvii	Neave, J. R., & Co. ....xxiv	Suuner's Typhoo Tea, Ltd. xxxiii
Beecham, T. ....vi	Fentiman, A. J., & Co. ....xxvii	Newbery, F., & Sons, Ltd. ....22	Suttley & Silverlock, Ltd. ....xxviii
Berdoe & Fish <i>Col. Supp.</i>	Ferry, T., & Son .....xiii	Nickel, H., & Co. ....12, 13	Tidman & Son, Ltd. ....x
Bidwell, Bidwell & Co. ....26	Fink, F., & Co. ....xxvii	Nitsche & Gunther Optical Co., Ltd. ....xix	Tombarel Fyeres .....16
Bishop, A., Ltd. ....i	Fletcher, Fletcher & Co., Ltd. ....3 & <i>Text</i> 680	North of England Chamols Co., Ltd. ....xvi	Tomlinson, T., & Son <i>Col. Supp.</i>
Boehringer, C. F., & Soehne ....vii	Ford, Shapland & Co. ....xxviii	Norwich Crepe Co. (1856), Ltd. vi	Toogood, W., Ltd. ....xiv
Boehringer, C. H., Sohn .....v	Garthwaite, H. ....xxvii	Oldfield Pattinson & Co. ....9	Tooth's Extract of Meat Co. xxv
Boisselier, Astor .....xliii	Grimble & Co. <i>Text</i> 680	Orridge & Co. <i>Col. Supp.</i>	Tye, J., & Son .....xxvi
Bond's Marking Ink .....xx	Halder, E. C. ....xxvii	"Oxo" .....xxiv	United Alkali Co., Ltd. ....viii
Brady & Martin, Ltd. ....xvi	Hallfor, The Co. ....16	Papier Poudre, Ltd. ....xxvii	Valda Pastilles .....xxx
Brett & Co. <i>Col. Supp.</i>	Harrison & Waide .....25	Parke, Davis & Co. ....21	Van Horn & Sawtell ....xxvii
Bristol-Myers Co. ....xxv	Henry, T. & W. ....vi	Parnall & Sons, Ltd. ....xx	Vichy Water .....xxii
British Diamalt Co., Ltd. ....viii	Howards & Sons, Ltd. ....lii	Perkin, Son & Co., Ltd. ....25	Viscose Development Co., Ltd. 26
British Drug Houses, Ltd. The 32	Hughes, E. Griffiths .....xxvi	Perkin & Co., Ltd. ....xvi	Vittel Water .....xxiv
Bronnley, H., & Co., Ltd. ....v	Huntley, Boorne & Stevens, Ltd. ....xx	Preston's Liverpool Distillery Co., Ltd. ....29	Wand Manufacturing Co. ....v
Brown & Blackburn .....xxvi	Ingram & Royle, Ltd. ....xxi	Price's Patent Candle Co., Ltd. 21	Wander, A., Ltd. ....xxv
Burge, Warren & Ridgley, Ltd. ....xii	Isaacs, I., & Co. ....xiii	Priecharde & Constance, Whole-sale, Ltd. ....xxvi	Ward & Goldstone .....30
Burrough, J., Ltd. <i>Text</i> 680	Jago & Jerome .....16	Rajar, Ltd. ....29	Wardale & Co. ....xxvii
Burroughs Wellcome & Co. ....31	Josephs, Philip, & Sons, Ltd. 2	Rendell W. J. ....xxvii	Washington Chemical Co., Ltd. <i>Cover</i>
Cadbury Bros. <i>Cover</i>	Junora Wine .....26	Roboraf Co. ....xviii	West, T., & Son .....26
Cardamom Cess Committee ....iv	Kay Bros., Ltd. ....xxviii	Robinson, B., & Co. ....xxii	Westminster College .....24
Cartwright, W. B., Ltd. ....iii	Kent, G. B., & Sons, Ltd. ....26	Robinson & Sons, Ltd. ....xii, x	Whitaker & Co. ....23
Charles, W. F. ....17	Kershaw, H. E., Ltd. ....xvi	Rudduck & Co. <i>Col. Supp.</i>	Widenmann, Broicher & Co. viii
Charity, W., & Sons .....viii	Laidlaw, W., & Co., Ltd. ....vi	Salle, H., & Co. ....iv	Williams Bros. & Co. ....xxviii
Christy, T., & Co. ....xxvii	Lambert Pharmacal Co. ....30	Sangers .....18	Wolff, C. E. ....22
Clark's Syphon Stove Co., Ltd. ....xx	Leslie, Ltd. ....xii	Sanitas Co., Ltd. <i>Text</i> 680	Wood, C. E. ....xxvi
Comet Chemical Co. ....xvi	Levermore, A., & Co. ....xxvi	Schmitt & Wildenhayn ....iv	Woolley, J., Sons & Co., Ltd. <i>Cover</i>
Cook, E., & Co., Ltd. ....4	Liverpool School .....24	Scholl, C., Manfg. Co., Ltd. xxvi	Wright, Layman & Umney, Ltd. <i>Cover</i>
Cox, Arthur H., & Co., Ltd. 1, 11	Lloyd, T. Howard & Co. <i>Cover</i>		
Cumming, J. W. ....xxvi	Lofthouse & Saltmer, Ltd. ....xxv		
Danzys Virus, Ltd. ....xvi			
Darton, F., & Co. ....29			

THE BUYERS' GUIDE.

In this section, under appropriate headings, are given the names of firms advertising in this or other issues of the month. No charge is made to advertisers for the insertion of their names, but only those who have contracts current for advertising in this journal are mentioned. The headings refer generally to the classes of goods actually advertised, but this is not a detailed Guide such as appears in "The Chemists' and Druggists' Diary." Inquiries addressed to the "Information Department," THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C., regarding articles not appearing in these pages receive prompt attention, as shown weekly in the editorial pages.

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Levermore, A., & Co., Ltd.
Mumford, G. S., & Sons
Nichols Chemical Co., Ltd.
Sturge, John & E., Ltd.

CHAMOIS LEATHER

North of England Chamois Co.

CHEMICALS

Anglo-Continental Chem. Wks.
Boehringer, O. F., & Soehne
Bramwell, E., & Son
British Drug Houses, Ltd., The
Brunner, Mond & Co., Ltd.
Burgoyne, Burdidges & Co.
Burroughs Wellcome & Co.
Corbyn Stacey & Co., Ltd.
Crown Chemical Works, Ltd.
Electrolytic Alkali Co., Ltd.
Evans Sons Lescher & Webb Ltd
Hoffmann-La Roche, Ltd.
Howards & Sons, Ltd.
Huskisson, H. O., & Co.
Johnson & Sons (Mfg. Chts.),
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Merck, B.
Morson, T., & Son
Pointet & Girard
Smith, T. & H., Ltd.
Sturge, John & E., Ltd.
Tyrer, T., & Co., Ltd.
Washington Chemical Co., Ltd
White, A., & Sons
Widenmann, Broicher & Co.

CHEST PROTECTORS

May, Roberts & Co., Ltd.
Solport Bros.
Wood, Vincent

CHLORATES, PERCHLO-

RATES

Societe d'Electro-Chimie

CHLORIDE OF LIME

Brunner, Mond & Co., Ltd.
Electrolytic Alkali Co., Ltd.
United Alkali Co., Ltd.

CHLORODYNE

Davenport, J. T., Ltd.
Freeman's Chlorodyne, Ltd.

CHLOROFORM

Alliance Drug & Chem. Co.
Burroughs Wellcome & Co.
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Morson, T., & Son
Smith, T., & H., Ltd.

CIGARS AND CIGARETTES

Hovenden, R., & Sons, Ltd.
Singleton & Cole, Ltd.

CITRIC ACID AND CITRATES

British Drug Houses, Ltd., The
Burgoyne, Burdidges & Co.
Howards & Sons, Ltd.
Morson, T., & Son
Sturge, John & E., Ltd.

CLINICAL THERMOMETERS

Burge, Warren & Ridgley, Ltd.
Hicks, James J.
Maw, S., Son and Sons
Perken, Son & Co., Ltd.
Raphael's, Ltd.
Zeal, G. H.

CLOTH BALLS

O'Neill, Zetts & Co.
Senior, Alf., & Co.

COAL TAR SPECIALITIES

Wright, Layman & Umney, Ltd

COCKROACH PASTE

Howarth & Fair

COCOA

Oadbury Bros., Ltd.

COD LIVER OIL

Albrethson, A., & Co.
British Drug Houses, Ltd., The
Charity, W., & Sons
Devold Peder
Jervell & Co.
Sparks, White & Co. Ltd.
Wright, Layman & Umney, Ltd.

COLLAPSIBLE TUBES

Betts & Co.
Brooks, Peel & Co.

COLOURS, BEVERAGE, &c.

Barnett & Foster
Boake Roberts & Co.
Stevenson & Howell, Ltd.
COLOURS, CHEMICAL
Williams Bros. & Co.

COMBS

Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, Francis & Sons, Ltd.

COMPLEXION LEAFLETS

Sangers

CONDENSERS

Bennett, Sons & Shears, Ltd.

CONFECTIONERY COLOURS

Williams Bros. & Co.

CONTINENTAL PROPS.

Wilcox, Jozeau & Co.

COPPERSMITHS

Braithwaite, H., & Co., Ltd.
Bennett, Sons & Shears, Ltd.

CORKS

Ayrton, Saunders & Co., Ltd.
Mitchell, N. W., & Sons, Ltd.
Swales, Thomas
Viscose Development Co., Ltd.

CORN EXTERMINATOR

Gardner

CORN PLASTERS

Solport Bros.

COUGH REMEDIES

Valda Pastilles

COUNTER ADJUNCTS

Evans Sons Lescher & Webb Ltd

COUNTER BILLS

Ford, Shapland & Co.

COUNTER DISPLAY STANDS

London & Colonial Mfg. Co.

COUNTER SPECIALITIES

Allen & Hanbury's, Ltd.
British Drug Houses, Ltd., The
Hewlett, C. J., & Sons
Lloyd, T. H., & Co., Ltd.
Lorimer Marshall
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Southall Bros. & Barclay, Ltd.

COURT PLASTER

Pharm. Indust. Ges. (Offen-
bach)

Solport Bros.

CREAM OF TARTAR

British Drug Houses, Ltd., The

CREOSOTE

Baile Bros. & Stevenson, Ltd.
Burt, Boulton & Haywood, Ltd.
Morson, T., & Son

CREPE BANDAGES

Burge, Warren & Ridgley, Ltd.
Gimber, W., & Son
Leslies, Ltd.
Norwich Crêpe Co. (1856), Ltd.
Wood, Vincent

CRUTCHES

Bush, H. W., & Co., Ltd.
Maw, S., Son and Sons

CYANIDES

May & Baker, Ltd.

DAIRY SPECIALITIES

Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

DENTAL INSTRUMENTS

Hatrick, Jas. L., & Co., Ltd.

DENTAL MECHANICS

Browning, A. J.
Cullwick H. E.
Fentiman, A. G.
Fentiman, A. J., & Co.
Garthwaite, H.
Halder, E. C.
Wardale & Co.

DEVELOPERS

Express Developing Co.

DEXTRINE

Fink, F., & Co.

DIGESTIVE PRODUCTS

Armour & Co., Ltd.
Benger's Food, Ltd.
Fairchild Bros. & Foster
Parke, Davis & Co.
Squire & Sons
Widenmann, Broicher & Co.
Zimmermann, O., & Co.

DENTIFRICES

Bash & Co.
Beecham, T.
Bell (John), Hills & Lucas, Ltd.
Blackie, Robert
Calvert, F. C., & Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Eueryl, Ltd.

Jewsbury & Brown

John Strange Winter

Knox, Walker, J., & Co.

Lambert Pharmaceutical Co.

McKesson & Robbins (Inest)

Mason Bros. & Chapman

Maw, S., Son & Sons

Newbery, F., & Sons, Ltd.

Odol Chemical Works

Riedel, J. D., & Co.

Sangers

Standard Tablet & Pill Co., Ltd.

Woolley, J., Sons & Co., Ltd.

DEVELOPERS (PHOTO)

Griffin, John J., & Sons Ltd.

Johnson & Sons (Mfg. Chts.)

DIABETIC FOODS

Ayrton, Saunders & Co., Ltd.

Brusson Jeune

Van Abbot, G., & Sons

DISINFECTANTS

Baile Bros. & Stevenson, Ltd.

Burt, Boulton & Haywood, Ltd.

Calvert, F. C., & Co.

Condy & Mitchell, Ltd.

Cook, E., & Co., Ltd.

Jeyes' Sanitary Compds., Ltd.

Sanitas Co., Ltd.

Tomlinson & Hayward, Ltd.

Willows, Francis B. & T.

Wright, Layman & Umney, Ltd.

DOUCHES

Eschbaum, F. A., Ltd.

Maw, S., Son and Sons

Reuter, R. J.

DRUGGISTS' SUNDRIES

Ayrton, Saunders & Co., Ltd.

Barclay & Sons, Ltd.

Berliner, Arthur

Burge, Warren & Ridgley, Ltd.

Bush, H. W., & Co., Ltd.

Christy, T., & Co.

Edwards, W., & Son

Evans Sons Lescher & Webb Ltd

Hovenden, R., & Sons, Ltd.

Maw, S., Son & Sons

May, Roberts & Co., Ltd.

Newbery, F., & Sons, Ltd.

Nickel, H., & Co.

Pothe, H., & Co.

Quelch, H. O., & Co.

Reuter, R. J.

Sangers

Schutze, F., & Co., Ltd.

Shirley Bros., Ltd.

Solport Bros.

Southall Bros. & Barclay, Ltd.

Swales, Thomas

Toogood, W., Ltd.

Wattenbach, J.

Woolley, J., Sons & Co., Ltd.

DRUGS, CRUDE

Baile Bros. & Stevenson, Ltd.

Brook, Parker & Co., Ltd.

Gathergood's Exor.

Goodall, Backhouse & Co.

Horner & Sons

Potter & Clarke, Ltd.

Ransom, W., & Son

Schmitt & Wildenhayn

Sparks, White & Co., Ltd.

DYES

Crawshaw, E., & Co.

Judson, Daniel & Son

Whitaker & Co. (Hat)

DYEWARES

Clemons, Marshall & Carbert

EAU DE COLOGNE

Farina, J. M.

Farina, J. M. (No. 4)

Farina, Johann Maria

Fickus, Courtenay & Co.

McCracken, J. & R.

Schutze F. & Co. Ltd.

Van Oppen Ross & Co.

EAU DE COLOGNE SOAP

Van Oppen Ross & Co.

EFFERVESCENT PREPS.

Bishop, Alfred, Ltd.

EDUCATIONAL INSTITUTES

Bath & West of England College
Birmingham & Midland College
Borough Polytechnic
College of Preceptors
Glasgow School of Pharmacy
Liverpool School of Pharmacy
London College of Pharmacy
North of England School
Northern College of Pharmacy
South of England College
Westminster College

ELASTIC GUM INSTS.

Mason Bros. & Chapman

ELECTRICAL NOVELTIES

Willard Brothers, Ltd.
Ward & Goldstone

EMERY AND CLOTH

Oakey, J., & Son, Ltd.

EMULSIFIERS

Bennett, Sons & Shears, Ltd.

EMULSIONS, C. L. O. &c.

Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.

ENEMAS

Bailey, W. H., & Son
Burge, Warren & Ridgley, Ltd.
Daval Rubber Co.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Warne, W., & Co., Ltd.

EPSOM SALTS

Corbyn, Stacey & Co., Ltd.
Howards & Sons, Ltd.

ESSENCES, CONCRETE

Lautier Fils
Tombarel Frères

ESSENCES, SOL. AND FRUIT

Alliance Drug & Chem. Co.
Barnett & Foster
Boake Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd.
Hay, Wm., Ltd.
Lautier Fils
London Essence Co.
Newball & Mason
Stevenson & Howell, Ltd.

ETHERS

Baiss Bros. & Stevenson, Ltd.
Duncan, Flookhart & Co.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
Whitaker, A., & Sons

ETHYLALPTUS OIL

British Drug Houses, Ltd., The

EXTRACT OF HERBS

Newball & Mason
Potter & Clarke, Ltd.

EXTRACTS (MEDICINAL)

Allen, Stafford, & Sons, Ltd.
Evans Sons Lescher & Webb Ltd.
Gathergood's Exor.
Hewlett, C. J., & Son, Ltd.
Parke, Davis & Co.
Ransom, W., & Son

FACTORY SITES

North-Eastern Railway
Great Western Railway

FEEDING BOTTLES

Bush, Henry, W., & Co., Ltd.
Evans Sons Lescher & Webb Ltd.
Horlick's Malted Milk Co.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
Reuter, R. J.
Sangers
Shirley Bros., Ltd.

FILTERS

Berkfeld Filter Co., Ltd.

FOODS, INVALID,

Allen & Hanbury, Ltd.
Bell (John), Hills & Lucas, Ltd.
Benger's Food, Ltd.
Bovril, Ltd.
Brand & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Fairchild Bros. & Foster
Horlick's Malted Milk Co.
"John Bull" Foods, Ltd.
Lactithin, Ltd.
"Lemco and Oxo"
Lofthouse & Saltmer
Menley & James, Ltd.
Natural Food Co., Ltd.
Neave, Josiah R., & Co.
Thelhardt's Food Co.
Turtle Cup (1911), Ltd.
Wander, A., Ltd.
Willows, Francis, B. & T.
FULLER'S EARTH
Wanford, G. S., & Sons
FUMIGATORS
Sanitas Co., Ltd.

FLESH GLOVES, STRAPS, &c.

Nickel, H., & Co.
Reuter, R. J.
Sangers
Solport Bros.

FLYCATCHERS

Alabastine Co. (British), Ltd.
Brook, Parker & Co., Ltd.
Deansmore Manfg. Co.
Ford, Shapland & Co.
May Bros., Ltd.
Smith, J. H., & Co.
Tunbridge & Wright

FURNITURE POLISH

Elivee Company

GLAUBER'S SALT

Bramwell, E., & Son
Howards & Sons, Ltd.

GLYCERINE

Meffert, Hermann & Co.
Price's Patent Candle Co., Ltd.

GLYCERINE PLANT

Forshaw, E., & Sons, Ltd.

GLYCEROPHOSPHATES

Merck, E.
Pointet & Girard
Reitmeyer & Co.

GOLD PAINT

Judson, D., & Son

GRAPHITE

Kahn & Co.

GRINDERS, DRUG, &c.

Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis, B. & T.

GRIPE WATER

Woodward, W., Ltd.

GUMS

Fink, F., & Co.
Kidston, W. M., & Co.

HAIR DYES

Blackie, Robert
Harker, Stagg & Morgan, Ltd.
Osborne, Garret & Co.

HAIR PREPARATIONS

Anglo-Continental Trading Co.
Blackie, Robert
Chesbrough Manfg. Co.
Edwards' "Harlene" Co.
Eglossa Manfg. Co.
Harker, Stagg & Morgan, Ltd.
Harrison, G. W.
Herpicide Co.
John Strange Winter
Odol Chemical Works
Osborne, Garret & Co.
Robare's Aureoline
Vibert, F.
Warner Oliver, Ltd.

HAT CLEANERS

Christy, Thos. & Co.
Senior, Alf., & Co.

HAT DYES

Judson, D., & Son
Whittaker & Co.

HAY FEVER REMEDY

Lu-Ku Co.

HEATING APPARATUS

Clark's Syphon Stove Co., Ltd.
Rajar, Ltd.
Richmond Gas Stove & Meter

HERBS

Brook, Parker & Co., Ltd.
Pannett & Neden
Potter & Clarke, Ltd.
Ransom, W., & Son

HOMOEOPATHIC MEDICINES

Ashton & Parsons, Ltd.
Keene & Ashwell, Ltd.

HOSPITAL FURNITURE

Hattrick, Jas. L., & Co., Ltd.

HOTELS

Esmond Hotel
Kingsley Hotel
Thackeray Hotel

HOT-WATER BOTTLES, &c.

Berliner, Arthur
Burge, Warren & Ridgley, Ltd.
Galen Manfg. Co., Ltd.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Schutze, F., & Co., Ltd.
Sheath Bros.
Sonthall Bros. & Barolay
Tompkins, James, Ltd.
Wood, Vincent

HYPOPHOSPHITES

May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

HYDROGEN PEROXIDE

May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co., Ltd.

ICHTHYOL

Ichthyol Gesellschaft

INK POWDERS

Williams Bros. & Co.

INSECT POWDER

Keating, Thomas

INHALERS

Burroughs Wellcome & Co.
Maw, S., Son & Sons
Sanitas Co., Ltd.

INSECTICIDES

Christy, Thos. & Co.
Tomlinson & Hayward, Ltd.

INSTEP SUPPORTS

Scholl, C. Manfg. Co.

IODINE RESUBLIMED

Howards & Sons, Ltd.
Huskisson, H. O., & Co.

IRISH MOSS

Cumming, J. W.
Salle, H., & Co.

ITROSYL

Fletcher, Fletcher & Co.

JARS AND POTS

Johnsen & Jorgensen, Ltd.
Jeifer, O. A.

JUNKET POWDER

Armour & Co., Ltd.
Tyrer, T., & Co., Ltd.

LAMPS

Block Light Co., Ltd.

LANOLINE

Burroughs Wellcome & Co.

LARD

Ewa, J., & Sons

LAVENDER OIL

Jakson, John, & Co.
Zimmermann, C., & Co.

LAVENDER WATER

Maddocks & Co.

LEATHER DYES

Williams, Bros. & Co.

LECITHIN

Chemical Works "Victoria"

LIME JUICE AND CORDIAL

Evans Sons Lescher & Webb Ltd.
Goodall, Backhouse & Co.

LINSEED, CRUSHED, &c.

Mumford, G. S., & Sons
Taylor, J., & Sons, Ltd.

LINTS

Liverpool Lint Co.
Maw, S., Son & Sons
Robinson & Sons, Ltd.

LIQUORICE JUICE

Apollo
Evans Sons Lescher & Webb Ltd.
Horner & Sons
Jackson, E. E.
Mumford, G. S., & Sons
Solazzi
Whittaker, Arthur

LIQUORS, CONC. &c.

Fletcher, Fletcher & Co.
Hewlett, C. J., & Son
Robinson, B., & Co.

LITHIA SALTS

British Drug Houses, Ltd., The
May & Baker, Ltd.

LOOFABS

Internl. Sponge Importers, Ltd.
Solport Bros.

LOZENGES

Ayrton, Saunders & Co., Ltd.
Cox, A. H., & Co., Ltd.
Denoual, J., & Co.

MALT EXTRACT & PREPS.

Boulton, J., & Co.
British Diamalt Co., Ltd.
British Drug Houses, Ltd., The
Davies, Sons & Co.
Evans Sons Lescher & Webb, Ltd.

MANICURE PREPARATIONS

Saunders, J. Touzeau, Ltd.

MARKING INK

Hickinson, A. (Bond's)
Williams Bros. & Co.

MEDICINE TUMBLERS

Bush, Henry W., & Co., Ltd.

METAL GOODS

Betts & Co., Ltd.

MICROSCOPES

Raphael's, Ltd.

MACHINERY, PHARMACAL

Allen & Hanbury, Ltd.
Bennett, E., & Son, Ltd.
Bennett, Sons & Shears, Ltd.
Boothroyd, H. T., Ltd.
Braithwaite, H., & Co., Ltd.
Comet Chemical Co., Ltd.
Forshaw, E., & Son, Ltd.
Gardner, Wm., & Sons, Ltd.
Griffin, J. J., & Sons, Ltd.
Lister, R. A., & Co., Ltd.
Pindar, J. W., & Co.
Stokes, F. J., Machine Co.
Wilkinson, S. W., & Co.

MEAT EXTRACTS

Armour & Co., Ltd.
Bovril, Ltd.

"Brand & Co., Ltd."
"Lemco and Oxo."

Tooth's Extract of Meat Co.
Turtle Cup (1911), Ltd.

MECHANICAL SHOW FIGURES

Bush, Henry W., & Co., Ltd.

MERCURIALS

Alliance Drug & Chem. Co.
Howards & Sons, Ltd.

May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

METHYLATED SPIRIT

Burroughs, J., Ltd.
Preston's Liverpool Distillery.

Randall & Son, Ltd.

MINERAL WATERS, SALTS

Apollinaris Co., Ltd.
Hughes, E. Griffiths.

Ingram & Royle, Ltd.
Vichy (State Springs)

Vittel

MIXERS AND SIFTERS

Comet Chemicals Co., Ltd.
Gardner, Wm. & Sons (Gloucester), Ltd.

MUSTARD PLASTERS

Rueff, Julius

NURSES REQUISITES

Hattrick, Jas. L., & Co., Ltd.

OILS, MINERAL, FATTY

Allen, Stafford, & Sons, Ltd.
Price's Patent Candle Co.

Schliemann's Oil & Ceresine Co.
Stern Sonneborn Oil Co., Ltd.

OILS, ESSENTIAL

Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chemical Co.

Boake, A., Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd.

Delvendahl & Kuntzel
Dodge & Olcott Co.

Evans Sons Lescher & Webb, Ltd.
Jackson, John, & Co.

Lautier Fils
London Essence Co.

Poppelreuter, W.
Ransom, W., & Son.

Schimmel & Co.
Stevenson & Howell, Ltd.

Tombarel Frères
Varaldi, F.

Wright, Layman & Umney, Ltd.
Zimmermann, C., & Co.

ointments

Blackie, Robert
Burgess, E.

Calvert, F. C., & Co.
Cox, Arthur H., & Co.

Oldfield, Pattinson & Co.
Peat Products (Sphagnol), Ltd.

Smith, Maurice
Zimmermann, Chas. & Co.

OLIVE OIL

Goodall, Backhouse & Co.
Sparks, White & Co. Ltd.

Varaldi, F.

OPTICAL GOODS

Baird, John
Botwright & Gray

Darton, F., & Co.
Maw, S., Son & Sons

Nitsche & Gunther Opt. Co., Ltd.
Raphael's, Ltd.

OPTICAL TUITION

Anglo American Optical Co.
British Optical Institute, Ltd.

Spectacle Makers' Company

ORANGE WINE

Hobson, Joseph & Son
Melrose-Drover Co., Ltd.

Miller, A., & Co., Ltd.

OTTO OF ROSE (SYNTH.)

Crown Chem. Wks.
Wright, Layman & Umney, Ltd.

PALATINOLDS

Oppenheimer, Son & Co., Ltd.

PATENT AGENT

Barker, R. W.

PHOTO. POSTCARDS

Rajar Ltd.

PACKED GOODS

Allen & Hanburys, Ltd.
Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
Boulton, James & Co. (1909)
Brook, Parker & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Christy, Thos., & Co.
Davies, Sons & Co.
Goodall, Backhouse & Co.
Harker, C. R., Stagg & Morgan
Knox Walker, J., & Co.
Lloyd T., Howard, & Co.
Lorimer Marshall
May, Roberts & Co., Ltd.
Newball & Mason
Oldfield, Pattinson & Co.
Potter & Clarke, Ltd.
Sangers'
Shirley Bros., Ltd.
Standard Tablet & Pill Co., Ltd.

PASTILLES

Allen & Hanburys, Ltd.
Ascho, C. F., & Co.
Burroughs Wellcome & Co.
Denoual, J., & Co.
Evans Sons Lescher & Webb, Ltd.
Guest, Thos., & Co.
Warrick Bros.

PEPPERMINT OIL

Jackson, John & Co.

PERFUME MATERIALS

Bush, W. J., & Co., Ltd.
Deivendahl & Kuntzel
Hörner & Sons
Lautier Fils
Naef, M., & Co., Succrs.
Schimmel & Co.
Tombarel freres
Varaldi, F.
Wright, Layman & Umney, Ltd.
Zimmermann, C. & Co.

PERFUMES

Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Barclay & Sons, Ltd.
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Charles, W. F.
Christy, T., & Co.
Claber, S., & Co., Ltd.
Erasmio Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Haliflor Co.
Hewlett, C. J., & Son
Hovenden, R., & Sons, Ltd.
Jago & Jerome
John Strange Winter
Lescol Perfumery Co.
McCracken, J. & R.
Newbery, F., & Sons, Ltd.
Piver, L. T.
Quelch, H. C., & Co.
Rivers, Hill & Co., Ltd.
Southall Bros. & Barclay Ltd.
Van Oppen, Ross & Co.
Vinolia Co.
Warrick Bros.
West, T., & Son
Wolf, F., & Sohn

PESARIES (SOLUBLE)

Burge, Warren & Ridgley, Ltd.
Rendell, W. J.

PETROLEUM JELLY

Cheesebrough Mfg. Co.
Schliemann's Oil & Ceresine Co.
Stern, Sonneborn Oil Co., Ltd.

PHOTO. CHEMICALS

Boehringer, C. F., & Soehne
Griffin, John J., & Sons, Ltd.
Johnson & Sons (Mfg. Chas.), Ltd.
Reitmeyer & Co.

PHOTO. GOODS

Barclay & Sons, Ltd.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb, Ltd.
Express Developing Co.
Griffin, John J., & Sons, Ltd.
Ilford, Ltd.
Kent, G. B., & Sons, Ltd.
Lennon, Ltd.
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Oppenheimer, Son & Co., Ltd.
Silverdale Photo Works.

PHOTO. RUBBER GOODS, &c.

Altrincham Rubber Co.

PLASTERS

Alcock Mfg. Co.
Berliner, Arthur
Dalmas, A. de St., & Co.
Leslies, Ltd.

PLASTIC MODELS

Knox, Walker (J.) & Co.

POISON JARS

Dunlop & Co.

POSTAL BOXES

Robinson & Sons, Ltd.

PILL MAKERS

Allen & Hanburys, Ltd.
Asche, C. F., & Co.
British Drug Houses, Ltd., The
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Howards & Sons, Ltd.
Lloyd, T. Howard, & Co.
Parke, Davis & Co.
Standard Tablet & Pill Co., Ltd.
Wand Manfg. Co.
Wyleys, Ltd.

PLEATED PAPER

Darter, Wilkinson & Co.
Smith Bros. & Co.

POLISHES (VARIOUS)

Bradley & Bourdas
Oakley, J., & Sons, Ltd.

POSTERS

Ford, Shapland & Co.

PRINTERS

Arden Press
Ford, Shapland & Co.
Harrison & Waide
Suttley & Silverlock, Ltd.
Townsend, J., & Sons

PROPRIETARY ARTICLES

Ashton & Parsons, Ltd.
Barelay & Sons, Ltd.
Battley & Watts
Beecham, T.
Bovril, Ltd.
Bow's Linament, Ltd.
Box, W. H.
British Drug Houses, Ltd., The
Burgess, E.
Chameleon Oil Co., Ltd.
Christy, T., & Co.
Corbyn, Stacey & Co., Ltd.
Crimson Cross Dispensary
Daisy, Ltd.
Danyas Virus, Ltd.
Davenport, J. T., Ltd.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd.
Faulding, F. H., & Co.
Fellows' Med. Mfg. Co.
Fennings, Alfred
Ferris & Co.
Freeman's Chlorodyne, Ltd.
Fulford, C. E., Ltd.
Goodall, Backhouse & Co.
Harrison, Geo. W.
Henry, T. & W.
Hughes, E. Griffiths
Iochthol Gesellschaft
Kay Bros., Ltd.
Keating, Thomas
Kntnow, S., & Co., Ltd.
Lalor's Phosphodyne
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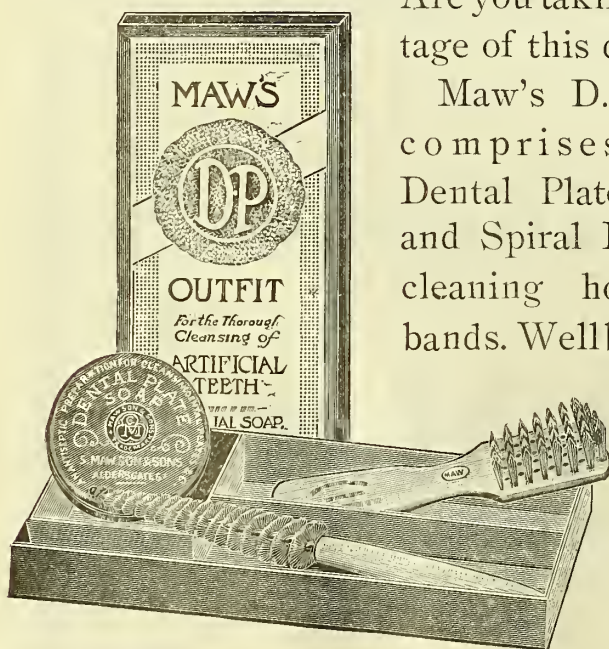
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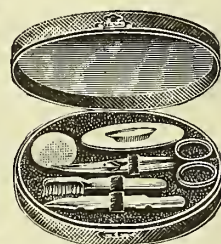


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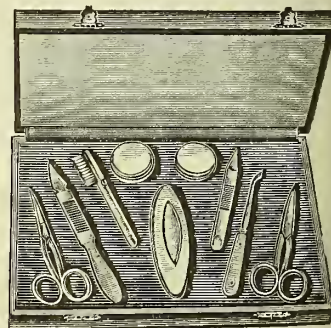


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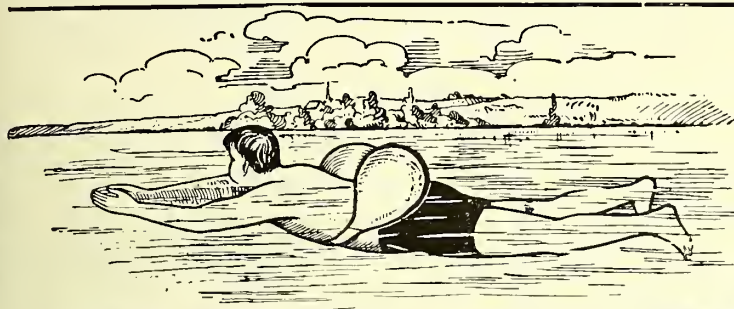
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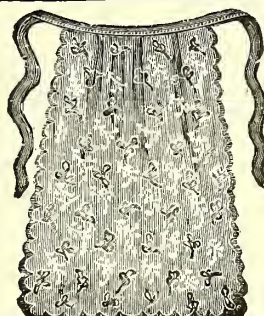
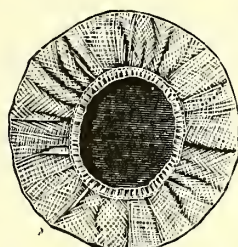
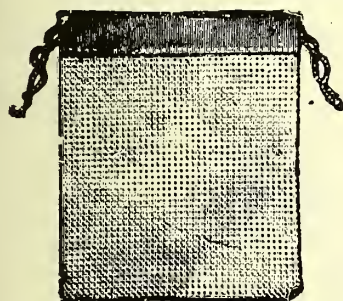
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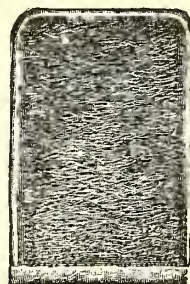
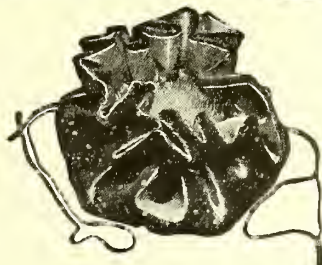
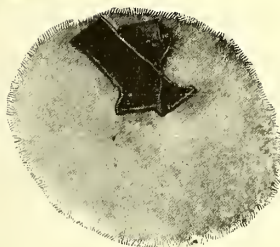
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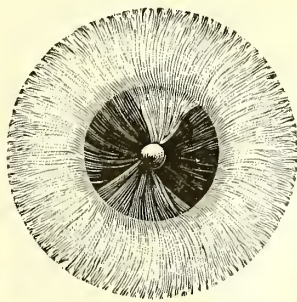
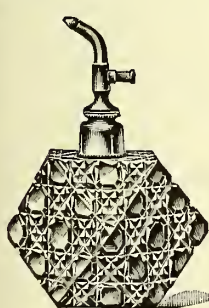


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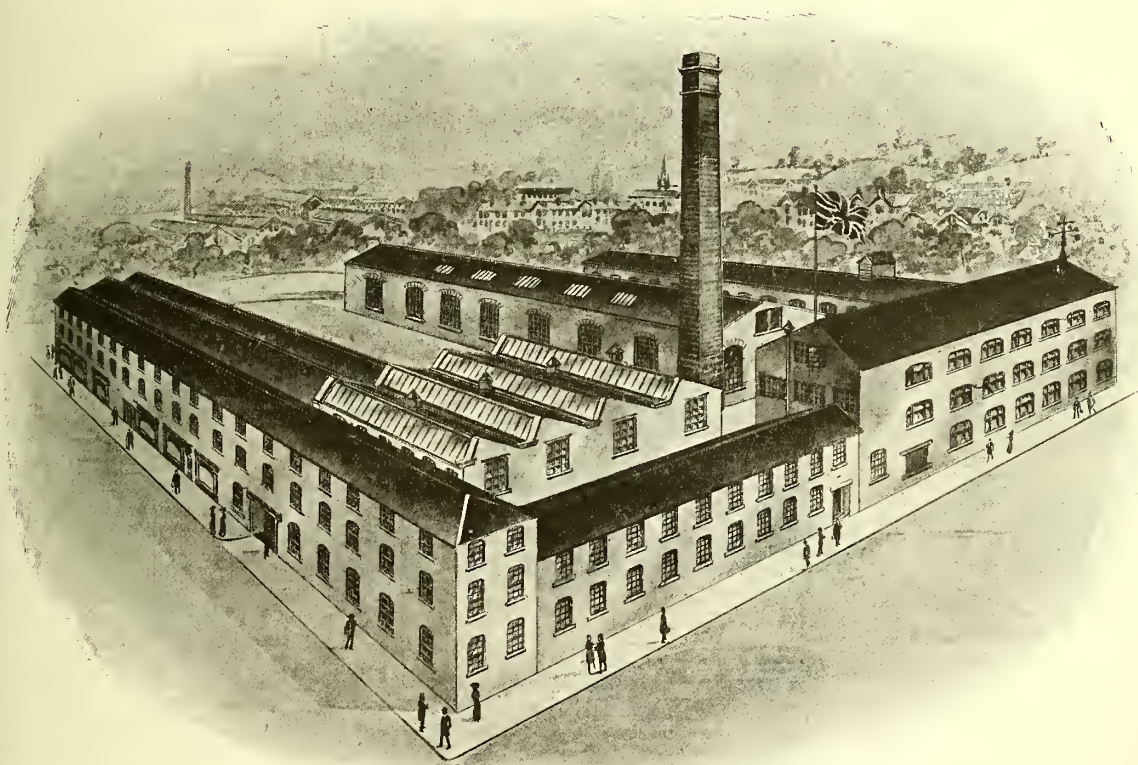
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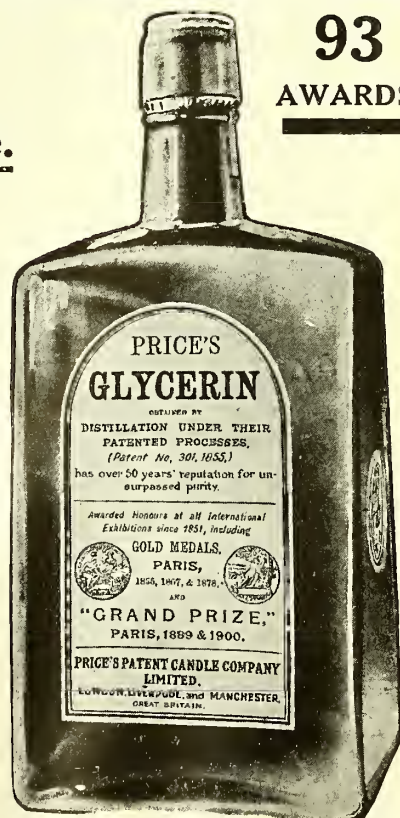
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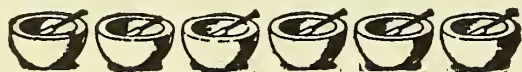
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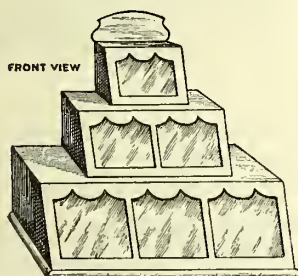
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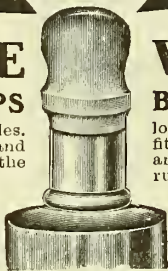
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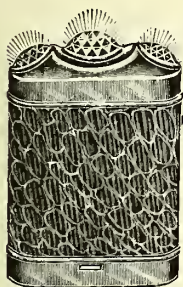
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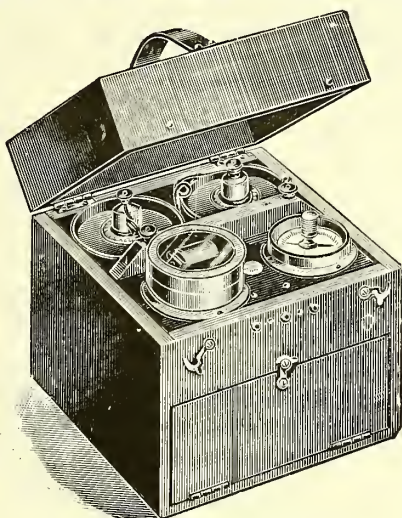
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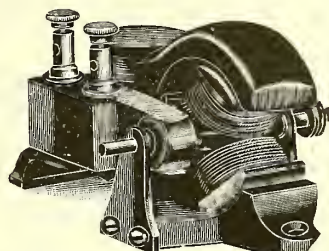
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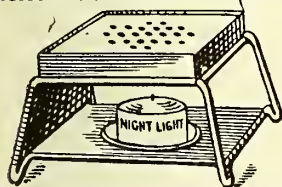


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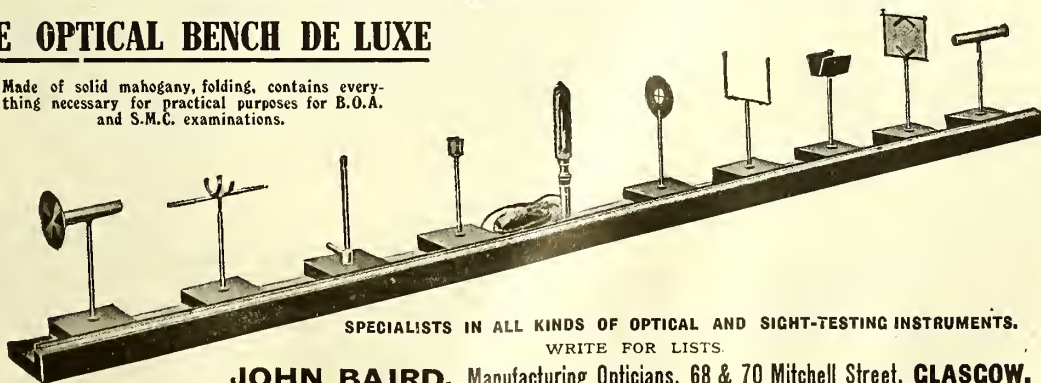
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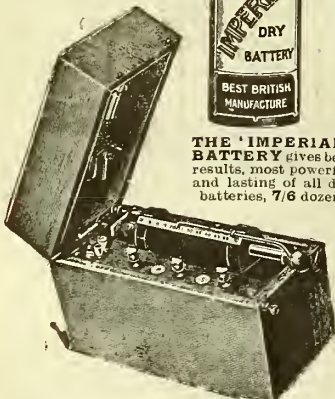
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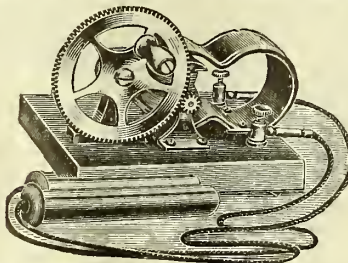
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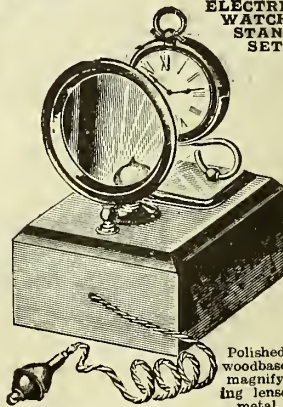
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CONTENTS: Vol. LXXIX., No. 19 (Series No. 1658).

[The folios in this List and in the Summary are those at the top of the pages, but references in the Text are to the Index folios at the bottom of the pages.]

	PAGE		PAGE
Association Presidents ...	54	New Companies and Com-	
Australasian News	37	pany News	41
Births	43	New Side-line	59
Books, New	52	Observations and Reflec-	
Business Changes	41	tions	47
Canadian News	45	Personalities	43
Chemists' Windows	59	Pharmaceutical Society of	
Coming Events ... <i>Col. Supp.</i>		Great Britain:	
Correspondence	64	Council Meeting	56
Editorial Articles:		Poisonings ... <i>Col. Supp.</i>	
Menthol	48	Prescription Problem	59
Poisonings in Scotland	49	Private Meeting	41
Chinese Produce	49	Retrospect	66
Notes	50	"Rexall"	52
English News	34	Scientific Progress	46
French News	36	Scots News	36
Gazette	41	Society of Chemical	
India and the East	37	Industry ... <i>Col. Supp.</i>	
Information Department	46	South African News	38
Irish News	35	Trade Notes	42
Legal Reports	39	Trade Report	60
Marriage	43	Westminster Wisdom	44
New Formulas	51	Wills	43
		Winter Session	54

THE TIME HAS COME

to send the Publisher final instructions about advertisements for THE CHEMISTS' AND DRUGGISTS' DIARY, 1912. No business man in the drug-trade cares to have his *Diary* for 1912 delivered after January 1. He wants to begin the year with it, and to keep it as a daily business help throughout the year. So to please our many friends overseas it is necessary that the 1912 *Diary* be mailed by the middle of November. This means closing for press soon, and the Publisher intimates that he cannot guarantee the insertion of any announcement in the *C. & D. Diary* for 1912 which is received after

Tuesday, November 7.

Summary of this Issue.

The more notable items only are dealt with.

Articles and Communications.

A note on the determination of ketones in essential oils is printed on p. 50.

There was a diminution in poisoning fatalities in Scotland last year, as is shown in an article on p. 49.

The compilers of the "National Formulary" invite comment or criticism on the new formulas which we print on pp. 51-52.

Fife Chemists' views on the medical benefit provision of the National Insurance Bill have again been expounded. See note on pp. 50-51.

The synthesis of menthol homologues and the preparation of menthol from American peppermint oil are dealt with in our first editorial article (p. 48).

Greater attention to side-lines by retail chemists is the message which Rexall delegates have brought back from U.S.A. A new one is described on p. 59.

"Xrayser II." comments upon the increasing trade interest exhibited by chemists' Associations, the pursuit of the ideal in pharmaceutical politics, and the new edition of "Pharmaceutical Formulas" (p. 47).

Our extracts from the *C. & D.* of fifty years ago regarding counter-prescribing are completed this week with an interesting and valuable opinion by Mr. Tompson Chitty, which created a great stir at the time (p. 66).

Australian views as to reciprocity in pharmaceutical qualifications are expounded on p. 64, most opportunely as showing the wisdom of the changed course taken in this matter by the Pharmaceutical Council on Wednesday (pp. 56 and 58).

We report interviews with Mr. R. A. Robinson and Mr. J. W. Sutherland, who have returned from the Rexall Convention in the United States. Both gentlemen are much impressed by the cleverness and resources of their hosts (pp. 52-53).

News of the Week.

The results of some of the municipal elections in England are reported on p. 35.

In the Coloured Supplement we report two meetings of the Society of Chemical Industry, at which chemico-textile subjects were discussed.

The Federated Malay States Government, finding that the existing law on the importation and use of deleterious drugs and the sale of poisons is ineffectual, have drafted fresh enactments the substance of which will be found on p. 37.

Our reports from Parliament in regard to the National Insurance Bill include pertinent questions as to dispensing. Chemists stand where they did (pp. 44-45).

The Winter Session begins, a portrait of Mr. Daniel Arnott, President of the Glamorgan Valleys Association, following a new emblematic heading, and a thyrmer's welcome to Uglosh interlarding business and pleasure (pp. 54-56).

The business of the Pharmaceutical Council on Wednesday was routine in character, except for a little Scotch breeze and the resolution to go on with reciprocity by immediate by-law, the basis being a course of study and examination. Particulars of the scheme are being submitted to the Colonial Office (pp. 56-58).

Several decisions on points of trade-law begin our legal reports this week on p. 39. The High Court cases include the continued hearing of the "Selvyt" spectacle-cleaner action; we report another and (for the present) the last emuls, magnesiae case, and deal more fully with the Irish cases of illegal sale of arsenic by licensed vendors (p. 40).

Trade and Market Matters.

The civil war in China is interfering with the shipments of produce from that source, and in an editorial on p. 49 we indicate some of its effects.

A quieter feeling is evident on the markets, but the activity in chemicals is well maintained. The chief alterations include higher prices for Hull castor-oil, sulphur, insect flowers, and lead salts. Cod-liver oil, cream of tartar, quicksilver (seconds), valerian, clove oil, hyposulphite of soda, and menthol are more or less cheaper (p. 59).

B

ENGLISH AND WELSH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

Brevities.

Messrs. H. S. Martin, Ltd., chemists and aerated-water manufacturers, East Grinstead, were "very highly commended" by the jury for their ginger-beer at the Brewers' Exhibition held recently at the Agricultural Hall.

At Accrington Police Court on October 26, the application of Mr. Henry Birkett for the transfer of the off-wine licence attached to 195 Blackburn Road, from Mr. James Chas. Hall, chemist and druggist, was granted. It was stated that the licence was for medicated preparations.

At a meeting of the Council of the Central and Associated Chambers of Agriculture on October 30, a report of the Local Government Board was considered on the use of condensed milk for infants' food (see *C. & D.*, September 16, index folio 448). It was resolved to request the President of the Board of Trade to issue regulations that labels be affixed to tins of condensed machine-skimmed milk, warning the purchasers that the milk is unfit as a food for infants and invalids.

The Opium Conference.

The date of the international conference on the opium question has now been fixed, and in a written communication to Mr. Edmund Harvey, M.P., Sir Edward Grey states that this will be opened on December 1, at the Hague. He adds that the Government has accepted the invitation of the Netherlands Government to attend the conference, but that the question of the selection of the British delegates is still under consideration.

Society of Apothecaries of London.

The Assistants' examination was held last month, and the following candidates passed and were granted the certificate of qualification to act as an assistant to an apothecary in compounding and dispensing medicines:

L. L. Bacarese, M. H. Baker, A. H. Banks, C. T. Cazalet, E. M. Charnock, C. M. Coleman, J. Corney, H. W. Davies, D. A. Drew, M. Edwards, A. Galloway, A. M. Hague, C. S. M. Haslam, D. M. Hickman, N. A. Rees, G. F. Robertson, D. M. Rogers, E. M. Russell, R. Salisbury, I. Sands, E. A. Scarth, H. Somerset, E. E. Sparling, H. M. Taylor, M. Trafford, R. J. Tunstall, K. Walpole, M. I. Whitham.

London Chemists' Golfing Society.

The London Chemists played their second match with the London Press on October 31, over the North Middlesex Course, in delightful weather. The players representing the Chemists' Society were Messrs. S. Briggs, W. B. Trick, H. M. Carmichael, J. G. Duncan, G. Beaton, J. J. Sutherland, W. Duncan, E. Beaton, W. Hales, W. Gray, S. Trick, and F. Cooper. The result was that in the singles the Pressmen secured 7½ games to 4½ games by the Chemists. In the afternoon the Pressmen won the foursome, five matches to one. The Chemists were handicapped by one or two of their leading players being unable to play at the last moment.

National Institution of Apprenticeship.

Sir Edward Busk, Prime Warden of the Fishmongers' Company, presided at the annual meeting of the National Institution of Apprenticeship held on November 1 at the Hall of the Company, London Bridge. The annual report stated that during the year 238 boys and 39 girls were bound apprentices by indentures. This was the largest number in any year since the establishment of the Institution. Altogether, from May 1905 to December 31, 1910, 1,000 apprentices had been placed in different trades. The table giving a description of the trades to which boys and girls had been apprenticed showed the following: Analytical chemist, 1; camera-makers, 4; chemists and druggists, 14; dental-instrument maker, 1; mechanical dentists, 22; manufacturing opticians, 6; scientific-instrument makers, 27; spectacle-makers, 2; surgical-instrument makers, 12; and thermometer-makers, 4. The Chairman, in the course of a short address, stated that the profession of solicitor is now the only one in which an apprenticeship is absolutely essential. At the conclusion of the proceedings the indenture and certificate of the

Council of the Institution were presented to a large number of apprentices, among them being the following, who are to follow the business of a chemist and druggist: Frederick Baker, Joseph Cartledge, William Henry Marshall, and George Samuel Hay.

From Various Courts.

At the North London Police Court on October 30, James Symon (41), described as a chemist, Gertrude Brett (38), both of Dudley Place, Paddington, and Barend Machiel Winkel, manager, King's Gardens, West Hampstead, were again remanded on a charge of being concerned together in an illegal operation on Beatrice Gregg at Upper Holloway on October 8.

A separation order, with 25s. per week, was made against William Philip Airdrie Taylor, chemist and druggist, of 28 Dickson Road, Blackpool, by the local magistrates on October 30, on the usual grounds of desertion, etc. Defendant admitted desertion, but denied any allegation of persistent cruelty. The wife estimated that her husband's business brought in 6*l.* or 7*l.* per week, but defendant's solicitor said last year his client only earned 14*l.* 6*s.* 8*d.* in all.

The trial at Lancaster of Edith Agnes Bingham (30), on a charge of administering arsenic to her father, half-sister, and brother (*C. & D.*, October 14, index folio 565), was concluded on October 30, when the jury found accused not guilty. Great interest was taken in the evidence given at the Assizes, the principal witnesses including Mr. C. B. Marshall, chemist and druggist, Renny Street, Lancaster, Mr. F. Massey, drysalter, Dr. J. W. McIntosh, Mr. G. F. W. Martin, F.C.S., analyst, Lancaster, Mr. W. H. Roberts, chief assistant county analyst, and Dr. W. H. Wilcox, of the Home Office. The professional evidence was to the effect that accused's relatives died from acute poisoning, due to taking arsenic in a soluble form, quantities of which were found in the bodies.

Birmingham Notes.

Great complaint is being made locally at the delay in delivering goods to traders by the various carrying companies.

Messrs. Needhams are advertising for an apprentice. They have an excellent window-display in their Horse-fair shop, the colour-tone being the purple of kings.

Mr. E. C. Bennison, Ph.C., F.C.S., as pharmacist to the 5th and 10th Warwickshire Voluntary Aid Detachments, was present at a Red Cross display at Haseley Hall, near Warwick, last Saturday, when Major Milner, R.A.M.C., inspected detachments of the British Red Cross Society commanded by Lady Sawyer and Mr. G. H. Nutting.

Manchester Notes.

Chemists are pleased that the restrictions of the water-supply have been removed. The abnormal day's rainfall (5 in. last Monday) in the Lake District has provided an ample supply.

The annual dinner of the Salford Pharmaceutical Association on November 15 promises to be a record as far as attendance is concerned, if the present sale of tickets is any criterion.

The weather during the last week has been of a wintry nature, and the demand for cough-mixtures, cod-liver oil, and winter requisites has livened up the somewhat dull trade of the past month. Several pharmacies have some very effective "Kepler" window-shows at present.

The funeral of the late Alderman Gibson took place at the Southern Cemetery, Manchester, on October 28, amid many demonstrations of respect and esteem. About 200 employés were present at the church of St. Bride and at the graveside, while some hundreds of the Hulme poor were present as a last tribute to Alderman Gibson's many benefactions in the surrounding district. The floral tokens were very numerous. The private mourners included Mr. F. H. Gibson, Mr. A. A. Gibson, Mr. W. H. Gibson, and Mr. H. H. Gibson (sons), and Mr. R. Gibson and Mr. L. M. Gibson (grandsons). Many public bodies were represented, the Pharmaceutical Society of Great Britain by Mr. H. Kemp, and the Manchester Pharmaceutical Association by Mr. G. S. Woolley (President), Mr. J. C. Kidd and Mr. A. Blackburn (Vice-Presidents), Mr.

A. J. Pidd (Treasurer), and Mr. J. Grier (Hon. Secretary). Messrs. Robert Gibson & Sons, Ltd., were represented by Mr. G. Stevenson (Secretary), Mr. F. Gothard (Manager), Mr. R. T. Slinger (head chemist), and Messrs. W. A. Cornwell, W. Fish, and G. H. Bishop (travellers), and Messrs. Jas. Woolley, Sons & Co., Ltd., by Mr. C. A. Johnstone.

Contracts.

Salford Town Council.—Higginbottom & Co., for a supply of copperas.

Kingston-on-Thames Town Council.—F. W. Berk & Co., Ltd., for 300 tons of sulphuric acid at 36s. 6d. per ton.

At a meeting of the Lambeth Board of Guardians on November 1 a letter was read from Messrs. Corbyn, Stacey & Co., Ltd., of 673 Commercial Street, London, E., regretting that the Guardians had passed over their tender for the supply of drugs, although lower than the one accepted. They would be glad to know the reason for this. The Board decided not to state why the tender was not accepted. One member said such a procedure would make a dangerous precedent.

Analysts' Affairs.

The Middlesex analyst (Mr. Ed. Bevan) states in his last quarterly report that none of the thirty-eight samples of glycerin examined were adulterated.

In Poplar during the last quarter one sample each of tartaric acid, cod-liver oil, and syrup of iron phosphate with strychnine and quinine were examined and returned as of standard quality.

The Lambeth analyst (Dr. John Muter) certified two samples each of olive oil and arrowroot as genuine during the past quarter. The total number of samples of foods and drugs examined in the same period was 388.

The Wolverhampton analyst, in his report for the quarter ending September 30, states that during the period one sample of each of the following drugs was examined: Bland's pills, spirits of camphor, cream of tartar, laudanum, tincture of myrrh, sodium salicylate, and tartaric acid. All were found to be genuine.

The Radnorshire County Council have decided to re-appoint Mr. Clarence A. Seyler, B.Sc., F.I.C., analyst *pro tem*. The Clerk has been directed to write to Mr. H. H. Ward, of Aberystwyth, giving him a further period of not exceeding six months in which to qualify as an analyst under the Sale of Food and Drugs Acts.

The Eattersea Medical Officer (Dr. G. Quin Lennane), in his annual report for 1910, states that six camphorated-oil samples and five samples each of olive oil and arrowroot were taken for analysis. All were genuine except a sample of camphorated oil, 83.39 per cent. deficient in camphor. The vendor was fined 2*l.*, and 12s. 6*d.* costs.

In his quarterly report, Mr. J. F. Liverseege, F.I.C., Ph.C., the Birmingham analyst, says that four 1*d.* bottles of camphorated oil which were analysed contained 20.4 to 21.9 per cent. of camphor, and were of the proper composition. Another sample was labelled "Camphor and Oil Embrocation," and it contained 15.8 per cent. of camphor, but was prepared with mineral oil instead of olive oil. The preparation was therefore an inferior one, but as there is no standard for "Camphor and Oil Embrocation" it had to be passed as genuine.

As the Lancashire County Analyst (Mr. Walter Collingwood Williams, B.Sc., F.I.C., of Liverpool) enters on January 1, 1912, on a whole-time engagement, the Health Committee has taken the occasion to revise its scale of fees. In cases where defendant requires the analyst under Clause 21 of the Sale of Food and Drugs Act, 1875, and is convicted or ordered to pay costs, or when any prosecutor other than the County Solicitor requires his attendance, the fee is to be 2*l.* 2s. when the analyst is able to reach the laboratory again by 2 p.m., and otherwise 5*l.* 5s. for each full day; actual outlay on travelling, additional. In connection with inquests and criminal cases, when several classes of poison have to be looked for (the symptoms or other facts not pointing to any particular poison), the fee generally will be—for each class of poison looked for with negative results, 2*l.* 2s.; separation of one definite poison or drug from a powder or pill or other mixture, and

identification by chemical tests, 2*l.* 2s.; detection of any common poison or drug when present in a comparatively large quantity and not mixed with food or other similar complex matter, 1*l.* 1s. Separation and detection of the rare alkaloids and other substances requiring application of physiological tests, and other unusual special investigations, charged according to the time they occupy. Fee for attendance to give evidence, at the rate of 5*l.* 5s. for each day of six hours, and proportionally for a shorter time; actual outlay on travelling, additional.

The Public Weal.

Alderman Joseph Beecham has accepted an invitation to retain the Mayoralty of St. Helens for a third year.

Mr. Thomas Davies, chemist and druggist, of the Medical Hall, Llandyssul, has been nominated to fill a casual vacancy on the Cardiganshire County Council.

The following gentlemen, in addition to those mentioned in our last issue, were nominated for election to Town Councils:

Mr. W. F. Charles, perfumer, Loughborough.
Mr. Max Muspratt, J.P., F.C.S., Liverpool.
Mr. W. Aston, Ph.C., Shelley Road, Worthing.
Mr. Henry Ball, Ph.C., 2 Morningside Road, Southport.
Mr. A. E. Fox, chemist and druggist, 23 Parsons Street, Banbury.

Mr. Geo. Bennett, chemist and druggist, Longshut Lane, Stockport.

Mr. Sidney M. Northey, chemist and druggist, Turret House, Bodmin.

Mr. F. C. Ashford, chemist and druggist, 1 St. Leonard's Road, Far Cotton, Northampton.

Mr. Samborne Cook, chemist and druggist, Forest Grove, Mount Hooton Road, Nottingham.

The following gentlemen have been returned to their respective Town Councils:

Mr. John Jones, chemist and druggist, 102 Cross Lane, Salford.

Mr. L. B. Rowland, chemist and druggist, 9 High Street, Wrexham.

Mr. Evan Jenkins, chemist and druggist, London Road, Faversham.

Mr. Richard Sturton, chemist and druggist, 6 Park Terrace, Cambridge.

IRISH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

Brevities.

Sir Stanley Harrington and Mr. W. B. Harrington have been elected members of the Executive Council of the Cork Employers' Federation.

Mr. J. C. O'Farrell, Ph.C., has passed in medicine and midwifery in the Final examination of the Royal Colleges of Physicians and Surgeons, Ireland.

Messrs. Fannin & Co., Dublin, have been declared contractors to the Meath Hospital, Dublin, for surgical dressings, etc., and Messrs. Boileau & Boyd for medicines.

Under the auspices of the Cavan Branch of the Irish Women's Natural Health Association, Dr. Robt. T. Herron, Ph.C., Armagh, delivered a lecture last week on tuberculosis.

Sir Wm. Baxter, D.L., Ph.C., Coleraine, President of the Pharmaceutical Society of Ireland, has been appointed a Vice-President of the Irish Proportional Representation Committee.

At Belfast Police Court, on October 30, Denis Magill was committed to the Assizes on a charge of obtaining 10s. by false pretences from Mr. Wm. Shaw, registered druggist, and sub-postmaster of Grosvenor Street Post Office. The prosecution was undertaken by the Post Office authorities.

There was considerable discussion at a meeting of the Edenderry Board of Guardians regarding a requisition for an operating-table and other surgical requirements, at an estimated cost of 20*l.* Dr. Kinsella recommended that these be obtained from Messrs. Allen & Hanburys, Ltd., but it was decided to invite tenders.

At Belfast Recorder's Court, on October 28, Jas. W. Keys and Geo. McRobbie *alias* Stanley were convicted of receiving wine and pills, well knowing them to have been stolen from the Shoemith Medicated Wine Co., Burnley. Keys was allowed out on his own recognisances and McRobbie was sentenced to six weeks' imprisonment.

At a meeting of the staff of Messrs. Hayes, Conyngham and Robinson, Ltd., at 12 Grafton Street, Dublin, it was decided to have the annual dance at the Gresham Hotel on January 5, 1912. A presentation was also made to Mr. W. F. Ellis, Ph.C., who is leaving the firm after ten years' service to fill a position in a French pharmacy.

At Londonderry Board of Guardians, on October 26, a letter was read from the Local Government Board declining to accept the analyst's certificate in reference to the samples of drugs from the Lower Liberties dispensary district, on the ground that the medical officer had been responsible for unreasonable delay in submitting the samples for analysis. The Chairman pointed out that that meant they would lose the usual rebate. A Guardian said that Dr. Sproule should be called upon to pay the amount, but it was thought that a strong letter to Dr. Sproule would meet the case.

Irish Chemists' Assistants' Association.

In connection with this Association a class has been started for students preparing for Trinity College and the College of Surgeons entrance examinations. The services have been secured of a teacher who is a graduate of London University and Trinity College, Dublin. Assistants desiring to join this class should communicate with the Hon. Secretary, Mr. R. Bates, 19 Warrington Place, Dublin. The Association intend holding a smoking concert on November 17 in the Central Hotel, Dublin. Tickets can be obtained from the Secretary.

SCOTTISH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

Brevities.

Claims against the late Charles Kerr, Ph.C., Dundee, are to be lodged with Messrs. Smith & Moncur, solicitors, 9 Ward Road, Dundee, before November 6.

The Postmaster-General deprecates the use of "N.B." on letters addressed to Scotland, which nobody calls North Britain. The word "Scotland" should be used.

The public examination in bankruptcy of Mr. A. Wales Berry, chemist and druggist, 52 Victoria Street, Aberdeen, will take place at the Sheriff Court House, Aberdeen, on November 24.

Glasgow and the West.

The best window-displays now consist of cough-mixtures, cod-liver oil emulsions, chest-protectors, and hot-water bottles. The weather conditions should help in the sale of these.

A fire occurred on October 31 in the chemical works of Messrs. Alexander Cross & Sons, Ltd., 20 Canal Bank, Possilpark, Glasgow, and damage was done to the estimated extent of 500/.

Mr. Anderson, chemist and druggist, has been appointed manager of the Falkirk branch of Messrs. Cockburn & Co., Ltd. Mr. Anderson has been first assistant in St. Enoch Square, Glasgow, for some time.

Chemists in Greenock are experiencing trouble in the delivery of their goods by the Caledonian Railway. The Company's carters have been on strike for some time. Chemists, with others, are getting goods delivered under police escort.

On Thursday, October 26, a meeting of the Greenock and District Chemists' Association was held in Ritchie's Temperance Hotel. The Insurance Bill and matters of trade interest provided material for a profitable discussion. The Secretary (Mr. T. Lowrie Sinclair, chemist, 86 Roxburgh Street) will be glad to welcome new members.

Medical Men and the Insurance Bill.

Mr. Smith Whitaker, the Medical Secretary of the British Medical Association, addressed meetings of medical men in Edinburgh and Glasgow last week. The meeting in Edinburgh on Saturday afternoon was presided over by Sir William Turner, M.D., and after Mr. Whitaker had spoken it was resolved, on the motion of Dr. John Gordon, Aberdeen, seconded by Dr. Hamilton, Hawick, to stick to the B.M.A.'s six points and to use every means to secure the enforcement of that policy.

Edinburgh.

Shipping companies who have offices in the city and in Leith have raised the rates for freights all round as from November 1.

A small advertising van has been noticed in the town this week, "Hairine for the Hair" being the preparation to which attention is solicited.

The new wholesale house, of which mention was made in the *C. & D.* some time ago, is being much discussed in drug-trade circles. The site of the premises is said to be on the north side of the town. So-and-so is the ruling spirit. "Somebody else" is alleged to be destined to represent the firm, and so on and so forth."

FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

POSTPONEMENT OF NEW FRENCH TARE REGULATIONS.—The Board of Trade are in receipt of telegraphic information to the effect that the date of enforcement of the French Presidential Decree of August 27, laying down revised regulations on the subject of tare allowances on imported merchandise, has been postponed from November 1 to December 31.

AN ECHO OF THE CHEMIST FOURCROY.—At the recent annual meeting of the five great French Academies M. Chuquet read an interesting paper on the origin of this important annual function. He traces it back to April 4, 1796, when in the Salle des Antiques at the Louvre the chemist Fourcroy read the result of his study on the explosion of oxymuriate (chlorate) of potassium to an audience of 1,500 persons, which included Carnot, Barras, and other celebrities of the epoch.

RAPID ANALYSIS.—For the convenience of the consumer in general and the retail tradesman in particular, the Paris Municipal Laboratory has organised a system of speedy analysis which is capable of rendering important services in many cases, and perhaps especially between the early morning arrival of the market-van or wholesale conveyances and the retail sale of various aliments and beverages. Samples are now accepted at the laboratory from 7 to 9 A.M., and are reported on as to purity or impurity in a few hours.

A PHARMACIEN'S DILEMMA.—A case of interest to pharmacists has been prominently before the public last week as the result of a serious error in dispensing. Briefly the facts of the case are as follows: In dispensing a bottle of medicine a Paris pharmacien inadvertently added corrosive sublimate instead of another substance. He noticed the error directly the customer, a woman, had left the pharmacy, but her identity was unknown to him, as he had not taken her address and had never seen her before. The dilemma was a painful one. If the woman took the medicine she ran rather desperate risks, and it was impossible to forewarn her. The pharmacien, however, took the precaution of advising the police of what had occurred, and also put an announcement in several newspapers in the hope of reaching his anonymous customer. The upshot of the matter was that the patient, Mme. Reclus, took a dose of the medicine and became seriously ill, but recovered after fifteen days' treatment. She laid a complaint against the pharmacien, but withdrew it on receiving a suitable financial compensation. A sequel to this rather unlucky adventure is that the pharmacien had dispensed the medicine without a doctor's prescription, and consequently is now threatened with prosecution for illegal practice of pharmacy.

AUSTRALASIAN NEWS.

"The Chemist and Druggist" is regularly supplied by order to all the members of nine Societies of Chemists in Australia and New Zealand, as well as to other Chemists in business there.

The Commonwealth.

PROHIBITED IMPORTATION.—A proclamation in the "Commonwealth Gazette" of September 16 prohibits the importation of the instrument now described and known as the "Oxydonor," manufactured by Dr. H. Sanche & Co., Detroit, U.S.A.

Queensland.

WAGES BOARD.—The draft has been published of the 'Shop Assistants' (Pharmaceutical) Wages Board. It is made to include any public or private dispensary or any premises where medicine is dispensed. The wages are rated at per hour: A manager, 2s. per hour, equal to 4l. 16s. per week; chief assistant, where two or more assistants are employed, 1s. 9d. per hour, equal to 4l. 4s.; registered assistants, 1s. 6d. per hour, equal to 3l. 12s.; unregistered assistants, 1s. 3d. per hour, equal to 3l.; improvers, for the first year after apprenticeship, 10d. per hour, equal to 2l.; second year, 1s. 1d. per hour, equal to 2l. 4s.; third year, the same as an unregistered assistant, 1s. 3d. per hour; apprentices, 10s. per week for the first year; 15s. and 1l. for the second and third years of apprenticeship. Where time off is taken for study the wages paid are to be *pro rata* to the number of hours served compared with the number forty-eight. Probationers who have entered a shop and have been there for not more than three months with a view to apprenticeship are to be paid 10s. per week; a reliever is to be paid 25 per cent. in excess of the rates allowed for a person engaged in a like grade, provided the employment be for six days or under; over that time the usual rates.

THE MEDICAL AND OTHER PRACTITIONERS BILL is an interesting experiment. It provides the machinery for boards for medicine, pharmacy, dentistry, opticians, and veterinary surgery. The machinery is practically identical in each case. A board consists in the first instance of nominated members, and later on of two nominated by the Government and five elected by those who are registered. As regards the Pharmacy Act, the board will have power to prescribe the examinations. No subjects are compulsory, thus giving entire freedom to change the standard, subjects, and curriculum, as circumstances demand. No certificates are compulsorily recognised. The board has full power to grant or refuse the recognition of the British, Irish, or any other certificates. In addition to the provision debarring an unregistered person from using titles, it is also made an offence to carry on, or attempt to carry on, the business of a pharmaceutical chemist, or to pretend to be a pharmaceutical chemist. The penalty is not to exceed 20l. or to be less than 3l. The period during which a business can be carried on by a mortgagee is extended from three months to twelve months, or for such further time as may be permitted by the board. Companies or associations are brought under the operations of the Act, and a new provision is that a company or association consisting wholly of pharmaceutical chemists will not be affected by the Act, while a company carrying on the business of pharmaceutical chemists and duly registered before the first day of December 1911 will be permitted to continue to act under the management of a pharmaceutical chemist. Clause 18 is new:

"Every pharmaceutical chemist who keeps or permits to be kept under his name any open shop or place of business for the compounding or dispensing of prescriptions, save under the actual personal supervision and management of himself or of another pharmaceutical chemist, shall be liable to a penalty not exceeding 20l. and not less than 3l., and to a further penalty not exceeding 10l. for every day during which the offence is continued after conviction.

Under the Opticians' Section of the Bill is a clause which states that every person shall be entitled to be registered as an optician upon making application and proving his competence to the board by evidence of experience.

INDIA AND THE EAST.

(From the "C. & D." Correspondents.)

MR. C. TRIM JOHNSON, Ph.C., manager of the George Town Dispensary, Ltd., Ipoh, had a very nasty spill off his motor-cycle recently, as the result of running into a dog. At the time the Singapore mail left, Mr. Johnson was still confined to the house suffering from a badly sprained ankle and several severe cuts on his face and arms.

NEW PATENT ACT FOR INDIA.—A new Act comes into force in India on January 1, 1912, which will alter the conditions under which valid patents are obtainable. Under the new Act valid letters patent cannot be obtained for an invention which has been previously used or published (as by the printed British specification) in India. Under the present Act it is allowable to file an application at any time within one year of the filing of the British application or of the actual sealing of the British Letters Patent. Therefore any intending applicants for Indian patents of which the corresponding British specifications are now published or will be published by December 31 next should take care to have their applications filed before that date.

INDIAN DRUG-TRADE.—The annual Blue-book on the trade of India in 1910-11 states that the value of the chemicals imported amounted to 584,100l., as compared with 536,400l. in the previous year. Bleaching materials advanced from 25,700l. to 26,200l., calcium carbide from 7,400l. to 7,700l.; potassium cyanide declined from 20,400l. to 19,000l.; while the imports of disinfectants improved from 21,200l. to 23,700l., and those of caustic soda from 52,700l. to 56,100l. Bicarbonate of soda declined from 32,300l. to 27,900l., while other sorts of soda increased from 73,000l. to 91,300l. Sulphuric acid rose from 74,440 cwt. and 46,700l. to 79,772 cwt. and 49,300l.; the comprehensive heading, "Chemicals, other sorts," advanced from 175,100l. to 189,900l. The total value of drugs and medicines imported was 656,900l., as compared with 601,300l. in 1909-10, or 9.3 per cent. more; imports of camphor receded from 1,457,918 lb. to 1,251,313 lb., or 14.2 per cent. less. The imports of quinine advanced to 128,149 lb. (73,000l.), against 120,112 lb. (62,500l.) in 1903-10. The progress, therefore, was one of 6.7 per cent. in quantity and 16.8 per cent. in value. Proprietary medicines expanded from 153,900l. to 168,700l., or by 9.6 per cent.; and medicines, "other sorts," from 224,500l. to 250,700l. The imports of aniline and alizarine dyes advanced from 13,775,957 lb. to 15,072,340 lb. in quantity and from 581,300l. to 684,700l. in value, or 9.4 per cent. in quantity and 17.8 per cent. in value; about 77 per cent. of the imports were received at Bombay; the imports of aniline accounted for the entire expansion, the quantity increasing from 6,999,996 lb. (347,200l.) to 9,204,012 lb. (472,800l.); on the other hand, alizarine declined by 13.4 per cent. The above figures regarding drugs and chemicals generally indicate that India was a larger consumer than ever.

DELETERIOUS DRUGS IN F.M.S.—The use of deleterious drugs having become more general in the Federated Malay States, the Government are seeking more control than heretofore to prevent the abuse of such, and the draft of an enactment to regulate their importation, sale, and use has been published in the F.M.S. Government "Gazette" of September 29. The same "Gazette" also contains the draft of an enactment to regulate the possession and sale of such drugs; all previous enactments are cancelled. Section 2 of this draft enumerates the following substances as poisons:

- (1) All preparations of antimony, except antimony sulphide.
- (2) All preparations of mercury, except cinnabar.
- (3) All vegetable alkaloids and preparations thereof, except
 - (a) those of the quinine and cinchona group,
 - (b) caffeine.
 - (c) theobromine.

(4) All preparations of and all natural or manufactured products which contain any of the following, viz.:

Aconitine.	Helleborin.
Antiarine.	Hyoseyamine.
Atropine.	Physostigmine or eserine.
Brucine.	Strophanthin.
Conine.	Strychnine.
Curarine.	Veratrine.
Digitalein.	

- (5) Arsenic and all preparations thereof.
- (6) Cannabis indica and all preparations thereof.
- (7) Cantharides and all preparations thereof.
- (8) Carbolic acid.
- (9) Chloroform and chloral.
- (10) Croton oil.
- (11) Ergot of rye and all preparations thereof.
- (12) Hydrocyanic acid and all cyanides.
- (13) Lead acetate.
- (14) Oxalic acid and all other oxalates.
- (15) Phosphorus.
- (16) Savin.
- (17) Henbane or stramonium.
- (18) All analogues of any of the above-named substances.

The principal points in the new draft are that the above poisons are not to be sold except by licensed persons, and the Principal Medical Officer, Federated Malay States, and any medical officer appointed by him have the power to issue and cancel licences. There are three kinds of licences: (1) wholesale, (2) retail, and (3) wholesale and retail to deal generally in poisons. The Principal Medical Officer has power to take samples and inspect books, and special rules regarding the storage of poisons are required. A fine not exceeding \$500 may be imposed for breach of rules. The above will be known as the Poisons Enactment, 1911.

The enactment to regulate the importation, sale, and use of certain deleterious drugs will be known as "The Deleterious Drugs Enactment, 1911"; the term "deleterious drug" means and includes:

- (a) Morphine, including morphia and all salts of morphine and any alkaloid or salt of an alkaloid of opium and any solution thereof.
- (b) Cocaine, including all salts of cocaine and any solution thereof.
- (c) Eucaine, including all salts and any solution thereof.
- (d) Any analogue of cocaine or eucaine.
- (e) Any drug which the Chief Secretary to Government on the recommendation of the Principal Medical Officer shall have decreed by notification in the "Gazette" to be a deleterious drug.

This does not include:

- (f) Any patent or proprietary article containing one or more of the above in quantity not exceeding in the aggregate 1 per cent. of the total ingredients of such articles;
- (g) Any patent or proprietary article which may from time to time be exempted by the Chief Secretary to Government by notification in the "Gazette."

No deleterious drug is to be imported or exported without permission, and the possession is prohibited subject to certain exemptions. Heavy fines are to be imposed for breach of rules. The Deleterious Drugs Enactment of 1907 and 1908 are both repealed by the above.

SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is regularly supplied by order to all the members of the seven Societies and Association of Chemists in British South Africa, as well as to other chemists in business there.

The Union.

CONTRACTS.—Tenders for the supply of drugs and druggists' sundries for the South African railways in the Natal and Cape Provinces are invited by the Government. October 31 was the latest date for tendering, and as the notice was only published on October 10, overseas firms are evidently not invited to tender, unless they can do so by their local representatives.

CUSTOMS.—It is generally understood that the new South African Customs Tariff will come into force the beginning of next July, and that overseas export drug-firms will probably not receive much consideration. Proprietary lines (where alcohol is absent or under 3 per

cent.) are likely to advance from 25 per cent. to 33½ per cent., and the tendency in official quarters is to make them even higher; but Parliament will naturally have some say in the matter. As the Transvaal is the largest buyer of lines handled by druggists, doubtless the Pharmaceutical Society of the Transvaal will be asked to make suggestions, as also other Societies within the Union.

Cape Province.

MEDICAL ETHICS.—The Griqualand West branch of the Medical Association has written to the chemists in the Kimberley district notifying them that all plates, boards, or notices, indicating the names of medical men with or without the hours of attendance at their stores, must be abolished forthwith, with the exception of a small brass plate at one place where a medical man has a *bona-fide* consulting-room reserved for his own special use. Chemists are still trying to fathom the object of the communication.

STEYN CANCER-CURE.—A commission sat at the Supreme Court Buildings, Cape Town, on October 5, to consider an application from Hermanus Johannes Steyn, of Klein Karee Pan, near Kimberley, for an extension of patent rights granted in 1897 regarding a "cancer-cure" for a further fourteen years. The Colonial Medical Council opposed. Petitioner, who is eighty-five years old, put in some interesting evidence, stating that his preparation was made by a secret process. He had improved it by leaving out the arsenic in the original specification. An example of the type of evidence given is as follows, petitioner having, in one instance, given a cancerous patient a plaster:

Mr. Justice Hopley: What was in the plaster?—It was a common plaster.

Did you put all the things in which you state in your petition?—No.

Well, we want to know which you put in.—It was the plaster I gave to all who suffered from cancer.

But what did you put in?—There was alum, zinc sulphate, and an oily part—I can't remember the name just now.

Vaseline?—Yes. And lion ointment.

Dr. Gregory: What is lion ointment, and where do you get it?

Witness's reply was not very clear. He was understood to say he purchased it.

Mr. Justice Hopley: Tell us what the proportions were?—One ounce of alum, three ounces of sulphate of zinc, and as much vaseline and lion ointment as can "bind" the other ingredients.

What's in lion ointment—you don't know?—No.

Steyn also stated his plaster drew out pieces of cancerous flesh, but did not affect healthy tissues, since it would not stick to them. If the cancer was internal it would be drawn through the pores. Before the commission adjourned Mr. Justice Hopley stated he could not understand why the patent was granted in the first instance.

Transvaal.

NEW BUSINESS.—Mr. Nicolson has commenced business at Kensington Pharmacy, Kensington, Johannesburg.

POISONED CIGAR.—For giving a friend a cigar containing strychnine, which happily was ineffective, Chas. Mayer was sentenced at Ladybrand to one year's hard labour and a fine of 250/.

OPIMUM CHARGE.—A Johannesburg chemist, named Right-house, was on October 5 remanded on a charge of illegally supplying opium to a Chinaman, and with also having 12 lb. of opium in his possession. Bail was fixed at 200/.

Pharmaceutical Society of the Transvaal.

ABOUT fifty members attended a special general meeting held at the Grand National Hotel, Johannesburg, on October 3, when the retail price-list was under discussion. Among those present were Messrs. W. Easterbrook (President), E. A. Ralling (Vice-President), A. Purnell, Adecock, Keir Whyte, Wheildon, Macdonald, Sanderson, Marshall, Warren, Ashkanazy, Keating, Mackintosh, Harmel, Cohen, Mathan-son, McGeorge, and W. H. Cross (Secretary). The price-list had been a great success, but of late a few members have broken faith by underselling after giving notification of withdrawal from the list. After a lengthy and lively discussion a motion by Mr. Ashkanazy that the list be withdrawn was carried by a big majority. Our correspondent states that this step is very much to be deplored, as he is inclined to think it will lead to cutting prices by large firms.

LEGAL REPORTS.

TRADE LAW.

A Lozenge Account.—At the West London County Court on October 30, Messrs. Radcliffe, manufacturing confectioners, sued Sydney Scott, of 13 Fulham Palace Road, S.W., for 4*l.* 0*s.* 6*d.*, the amount of a judgment they had obtained against the defendant, who did not appear. Plaintiffs stated that defendant was a chemist, with a good business, and his Honour made an order for payment at the rate of 10*s.* a month.

More Hertz Cases.—In the City of London Court on Thursday, October 26, before Judge Lumley Smith, K.C., two cases came before the Court, *H. & R. Process Engraving Co., Ltd., v. Hertz & Co.* and *Hudson & Robinson v. Hertz & Co.* The plaintiffs in each case had obtained judgment against Messrs. Hertz & Co., Mincing Lane, E.C., for various amounts; and in order that judgment summonses might be issued, the judgments not having been satisfied, the plaintiffs applied to have the defendant's description altered to J. Hertz.—Judge Lumley Smith asked who were the members of the firm of Hertz & Co.?—Plaintiffs' representative replied that there was only one member, J. Hertz.—Judge Lumley Smith told the plaintiffs they should have put in the defendant's proper description before they had obtained the judgments.—Plaintiffs' representative said he did not find it out until after the judgment had been signed and after execution had been issued.—Judge Lumley Smith: Has he had notice of this?—Plaintiffs' representative: Yes.—Judge Lumley Smith said he would make the order as asked.

Mr. Bromley's Articles.—In the City of London Court on October 31, before Judge Lumley Smith, K.C., Mr. Albert W. Bromley, chemist and druggist, 3 Bank Buildings, Wheatstone, sued Mr. W. S. M. Knight, barrister-at-law, 3 King's Bench Walk, Temple, to recover five guineas for articles sent to the "Business Encyclopædia," of which the defendant was the editor. Plaintiff stated that in January 1907 he published a little book on how to purchase retail businesses, and the defendant wrote to him and subsequently asked him to write three articles for his "Business Encyclopædia" on the same subject and on price-maintenance, which he did. Defendant acknowledged the receipt of the MS., but had never paid for it, and it never came back. Defendant said he did not agree to accept the articles except on the terms that they were not to be paid for until approved of. He found they were unsuitable, and returned them to the plaintiff. Plaintiff denied that he agreed to supply the articles on sale or return. He distinctly mentioned that contingency to the defendant, who said he was quite satisfied with the plaintiff's other literary work that he had seen. Defendant replied that if Mr. Bromley's articles had been suitable he would have used them and paid for them. The Judge said the case was unsatisfactory because the work charged for was done four years ago. He did not think the plaintiff had made out his case, and gave judgment for the defendant, but without costs.

Speculation in Oil.—In the King's Bench Division on October 31, Mr. Justice Phillimore and a special jury had before them an action in which Mr. Chas. Held, of Calendon Road, London, sought to recover from Raymond Pollak, Oscar Pollak, and Henry Pollak, produce-brokers, Fenchurch Avenue, the sum of 283*l.* 18*s.* 2*d.*, balance of money alleged to be due in respect of the sale of cotton and linseed oil. The plaintiff's complaint embodied an allegation that he employed the defendants to purchase and sell oil for him, and that the sum in dispute was now due in respect of several contracts. Raymond Pollak pleaded that he ceased to be a partner in June 1907, that he had no knowledge of the contracts in question, and that the partnership articles precluded the partners from entering into any speculation. He also alleged that Mr. Held, at the time the contracts were made, was not possessed of any oil and did not carry on the business of a dealer in oil, and the parties to the contracts never intended that either the plaintiff or the defendants should deliver or take delivery of the oil, the contracts being merely gaming and wagering contracts. He further pleaded that in August 1907 Oscar and Henry Pollak assigned all their estate to a trustee for the benefit of creditors, and under this deed he was released from liability. The other defendants pleaded that their manager was not acting within the scope of his authority in making the contracts. The jury heard evidence for the plaintiff and then stopped the case, expressing the view that the contracts were not genuine bargains. His Lordship accordingly entered judgment for the defendants, with costs.

High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice, London.

NATIONAL CASH REGISTER LITIGATION.

The case of the National Cash Register Co. v. Green was mentioned on Friday, October 27, to Mr. Justice Grantham, in the King's Bench Division, and an order was made that it should not be in the list for trial before next term.

THE SOAP LITIGATION.

The hearing by Mr. Justice Joyce of the actions brought by Lever Brothers, Ltd., and Benjamin Brooke & Co., Ltd., against the Masbro' Equitable Pioneers' Society, Ltd., to restrain an alleged substitution of soap manufactured by the Co-operative Wholesale Society, Ltd., for plaintiffs' "Lux" and "Monkey Brand," is still going on. Evidence was given on Tuesday by managers of the defendant Society's branches to the effect that there was no substitution. Next day the examination of Mr. James Playfair, chief clerk in the grocery order department of the Co-operative Wholesale Society, enabled counsel to go into the enormous turnover of the Society and its affiliated branches, this concluding the evidence. Counsel then addressed the Court, and the case continued on Thursday.

SALE OF A DENTIST'S BUSINESS.

Mr. Justice Bankes and a common jury in the King's Bench Division commenced, on November 1, hearing an action which arose out of the sale of a dentist's business. The plaintiff was Mr. Jacob Marks, of Westbourne House, Westbourne Park, who claimed from the defendant, Mr. John B. Snarey, an instalment of 150*l.* due upon an agreement for the sale of plaintiff's business. By his defence Mr. Snarey admitted that the money was due, but he counterclaimed for damages, alleging that the sale of the business to him was brought about by false representation on plaintiff's part. Plaintiff denied the allegation of misrepresentation. On Thursday the jury found for plaintiff on his claim for 150*l.* as the first instalment, and for the defendant on his counterclaim, awarding him 350*l.* damages.

GLEDHILL ROLLS.

In the Court of Appeal, before the Master of the Rolls and Lords Justices Moulton and Farwell, on October 30, the case of G. H. Gledhill & Sons, Ltd., of Halifax, v. the British Patent Perforated Paper Co. was heard upon the appeal of the plaintiffs from a judgment of Mr. Justice Eve in the Chancery Division. Plaintiffs brought the action against the defendants to restrain them "passing off" as of the plaintiffs' manufacture paper coils for tills, coils which were not in fact made by them. Mr. Justice Eve, in giving judgment for the defendants, based his judgment on the fact that at the time the writ was issued the expressions "Gledhill's coils," "Gledhill's Rolls," and the like had acquired a secondary meaning, and that the use of those expressions by the defendants for the purpose of selling their goods was not in December 1909 calculated to induce the belief that they were the plaintiffs' goods (see *C. & D.*, 1911, I. 503). Mr. A. J. Walter, K.C., and Mr. Kerly addressed the Court for the appellants, and, without calling upon counsel for the respondents, their Lordships dismissed the appeal, with costs.

SPECTACLE-LENS CLEANERS.

The hearing was resumed by Mr. Justice Swinfen Eady, in the Chancery Division on October 31, of the action by Jones Bros., Ltd., against the Anglo-American Optical Co. for an injunction to restrain the defendants from manufacturing, using, or selling cut-pile lens cloths or spectacle and eye-glass cleaners, which were got up in any manner, or nearly resembling the plaintiffs' goods, calculated to deceive. Defendants said the goods manufactured and sold by the plaintiffs were all distinguished by the word "Selvyt," which was printed or stamped thereon, and the word was in fact distinctive of the plaintiffs' goods. None of the features of the plaintiffs' goods which were alleged to constitute the get-up of the goods were either severally or in combination distinctive

of the goods, but all the features were in common use in connection with goods of the same class. They further said that their goods were markedly different in essential particulars from the plaintiffs', and were not calculated to deceive, nor did they in fact deceive purchasers or the public into the belief that they were the plaintiffs' goods. Plaintiffs' evidence was heard on July 27 and 28 last, and his Lordship then adjourned the trial till the present sittings of the Court (*C. & D.*, August 5, p. 245). Mr. A. J. Walter, K.C., and Mr. Colefax appeared for the plaintiffs, and Mr. F. Russell, K.C., and Mr. Owen Thompson for the defendants. On Thursday Mr. Colefax summed up on behalf of the plaintiffs, and Mr. Russell opened the defendants' case. He then called evidence, which was given by Mr. Jack E. Druiff and Mr. Guy E. Druiff, whose father owned the business of the Anglo-American Optical Co. Mr. Guy Druiff said he was the manager of the company's business. The getting out of a lens-cleaner was in his hands, and in a small degree his brother's. His father had nothing whatever to do with it. They used to buy lens-cleaners from the plaintiffs, and the connection ceased in 1907. At the time of the last order to the plaintiffs they asked them to supply the cleaners without the word "Selvyt," but they refused. They had always for a number of years supplied lens-cleaners in different forms. It was not a new idea. After closing their account with the plaintiffs they entertained the idea of dealing in velveteen other than "Selvyt." The printing and the colour of the square on the defendants' cloth were supplied by the printers without instructions. The material was supplied by Messrs. Rylands from samples they had in stock, and no suggestion was ever made by his company that dyeing or tinting should be resorted to. The size of the square varied according to the amount of printed matter to be enclosed.

Mr. Guy Druiff was cross-examined by Mr. Walter on Thursday, after which evidence was given by Mr. Robertson, of Messrs. Rylands, who said that they suggested the shape of the square on the defendants' cloth. Mr. A. W. Rose, of the same firm, also gave evidence, as well as other textile experts. The case is proceeding.

Sale of Food and Drugs Acts.

PRESCRIPTION FOR EMULS. MAGNESIÆ.

At the Feltham Police Court on October 30, Henry William Herbert, chemist and druggist, High Street, Egham, Surrey, was summoned under Section 7 of the 1875 Act for selling, at his branch shop at High Street, Staines, a compounded drug which was not composed of ingredients in accordance with the demand of the purchaser, but contained an excess of about 123 per cent. of magnesium hydroxide. Defendant admitted a technical offence, and desired to explain the circumstances.

Mr. R. A. Robinson, barrister-at-law, who prosecuted for the Middlesex County Council, said that a prescription was handed to Mr. Britland, defendant's manager at the Staines branch shop, on September 27, for the supply of 6 oz. of emulsion of magnesia, in accordance with the British Pharmaceutical Codex. The drug desired should have contained 13 grains of magnesium hydroxide per fluid ounce. On calling on the following day defendant's manager served the inspector with a drug in a bottle bearing the label in accordance with the prescription, but containing a drug which, on analysis, was found to contain 29 grains per fluid ounce. The Bench might feel some sympathy with the defendant because he was not present when his manager served the inspector, and he had been instructed to put that aspect of the case before the Bench, but to also point out that defendant was liable for the acts of his servants, and that it was a serious matter if double the strength required by a doctor was supplied. It was because of this that he had been instructed to bring this case forward. Mr. Britland wrote a letter to him on September 28 giving an explanation of what occurred, and as it would help defendant he would hand it in. The letter went to show that when the prescription was left with the manager he at once proceeded to make it up, but this took longer than he had anticipated, and when the inspector called for the third time on the following morn-

ing the preparation was not in a suitable state, and he took a bottle of a proprietary article containing similar ingredients, and poured it into a bottle, labelled it, and sold it to the inspector as the article he desired. If Mr. Britland had taken the trouble to find out the strength of this proprietary article and diluted it down it would have been "all right."

Evidence of the purchase having been given, defendant, on oath, said that Mr. Britland had been in his employ ten years, and was a really first-rate chemist. On proceeding to make up the prescription he found that it would take a great deal longer than he had anticipated, because the chemical process to be followed and the admixture of two ingredients took longer for the precipitate to form than he had reckoned. He ultimately found he could not use the precipitate at all, and, having disappointed Mr. Brown once already, and finding, on the following morning, that the chemical process was still incomplete, he made up a bottle of Phillips's milk of magnesia, which contained the necessary ingredients. He was under the impression that the drug was wanted, and did the next best thing so as to avoid delay, and sold this proprietary admixture to Mr. Brown, thinking, in the hurry of the moment, it was of the required strength. He (defendant) had been actively dispensing for the past twenty years, and had never been asked for a preparation of this kind, and if Mr. Britland had not been a really good chemist he would not have attempted to avoid any further delay by using the article in question.

The Chairman of the Bench (Mr. Ashby) said that the Justices would not inflict a fine under the circumstances, although it was important that these prescriptions should be always followed. Defendant may pay the costs (10s.) and the analyst's fee (7s. 6d.).

Pharmacy Act (Ireland).

FIRST CASES ARISING FROM THE POISONS AND PHARMACY ACT, 1908.

At the Elphin Petty Sessions on October 25, before Mr. Griffin, R.M., and other magistrates, Mrs. Anne Fitzmaurice, publican and grocer, and her assistant, John McDermott, were summoned at the instance of the Council of the Pharmaceutical Society of Ireland for selling arsenic (Cooper's sheep-dipping powder), contrary to the Pharmacy Act (Ireland), 1875, as amended by the Poisons and Pharmacy Act, 1908. Mr. W. C. Mecke, of Messrs. A. & J. Robinson, solicitors, Dublin, represented the Society, and Mr. P. J. Gaynor defended.

Mr. Mecke stated that Mrs. Fitzmaurice had obtained a licence to sell poisons for agricultural and horticultural purposes, and the poison in this instance had been sold without the formalities laid down by the Arsenic Act, which are a condition of the licence. This was the first prosecution of the kind in Ireland.

Sergeant McLoughlin deposed that on May 19 he bought the package of Cooper's dip from Mr. McDermott. He had no book in which to enter the names of purchasers, nor had he labelled it to show where it was purchased. The package was bought at a counter where other groceries were sold. Witness reported the case to the Society. Cross-examined, witness said the powder was not in a special place for itself; it was among groceries.

Mr. Walter Thorp, B.Sc., F.I.C., F.C.S., deposed that he analysed the packet produced, and found it contained 18½ per cent. of arsenic. He usually found 10 per cent. of arsenic in packets, but this was the strongest he had ever found.

Mr. Gaynor said there was no penalty under the Act of 1908 for this offence, but they admitted no offence.

Mr. P. J. Fitzmaurice (son of defendant) deposed that the poisons were kept on a shelf by themselves, and had no connection with any other things in the shop. An official came on the premises, and if he did not think the place suitable, he would not grant the licence. Cross-examined, witness said they stocked cornflour in the same part of the shop where the poison was kept, but it was about three yards away. On the shelves next to where the dip was stored there were sardines, salmon, jam, and drugs.

The Magistrates having conferred, it was announced that they had decided to convict in both cases.

Mr. Gaynor submitted that as regards McDermott, the Magistrates, under the Probation of Offenders Act, 1907, could refuse to inflict a penalty.

The Magistrates fined Mrs. Fitzmaurice 5*l.*, and gave 2*s.* costs. They made the following order on the summons against John McDermott: "The Court being of opinion that the charge against defendant is proved, but is of opinion that having regard to the age of defendant and the extenuating circumstances under which the offence was committed, he being a young man acting under the orders of his principal, and liable to dismissal for disobedience, hereby dismiss said charge."

Mr. Meeke asked the Magistrates to state a case, and they assented to his application.

The Society also summoned Mr. Francis Duke and Mr. John Duke for a similar offence. Mr. Francis Duke was fined 5*l.* as owner, but in the case of Mr. John Duke the Bench declined to convict as the circumstances were extenuating. Mr. Meeke asked that a case be stated here also.

LIMITED COMPANIES.

New Companies Registered.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

DARLINGTON TEETH INSTITUTE, LTD. (P.C.).—Capital 100*l.* N. Lockey, West Crescent, Darlington, clerk, is the first secretary.

STANDARD DENTAL RUBBER Co., LTD. (P.C.).—Capital 1,050*l.* The first directors are R. G. Orr and J. Thame. R.O., Salisbury House, London Wall, E.C.

ACETYLENE PUBLICITY, LTD. (P.C.).—Capital 500*l.* Objects: To advertise acetylene and calcium carbide, to make experiments in and exhibitions of the uses thereof, etc. R.O., 103 and 104 Cheapside, E.C.

AIRTIGHT CAPSULES Co., LTD. (P.C.).—Capital 2,000*l.* Objects: To acquire the business carried on by H. Wallis at Dashwood House, New Broad Street, E.C., as the Airtight Capsules Co. H. Wallis is sole permanent director.

GILBERT RAE, LTD. (P.C.).—Registered in Edinburgh. Capital 15,000*l.* Objects: To acquire the business of Gilbert Rae, aerated-water manufacturers, Dunfermline. The first directors are G. Rae, J. Rae, and J. C. Rae. R.O., Bredridge Works, Goldrum Street, Dunfermline.

ENAMELITE, LTD. (P.C.).—Capital 5,000*l.* Objects: To carry on the business of manufacturers of and dealers in varnishes, paints, enamels, lacquers, polishes, stains, etc., and to adopt an agreement with E. O. D. Beasant. The first directors are W. S. E. Krause, E. O. D. Beasant, and J. Gilman. R.O., 2-3 Norfolk Street, W.C.

SANALAK, LTD. (P.C.).—Capital 1,000*l.* Objects: To acquire from E. T. Marr the business of the Sanalak Syndicate, including as part thereof the various subsidiary businesses, together with the recipes for and the right to manufacture, prepare, and deal in certain medicinal preparations and appliances. E. T. Marr, patent-medicine proprietor, is permanent governing director. R.O., 15, 17, and 19 Vine Street, Clerkenwell, E.C.

Company News.

SANITAS Co., LTD.—The directors have declared the usual interim dividend at the rate of 5 per cent. per annum for the six months ended September 30, 1911, payable on and after December 1.

INTERNATIONAL PLASMON, LTD.—The annual general meeting was held at 66 Farringdon Street, London, E.C., on October 31. The Chairman (Mr. Siegfried Barentz), in moving the adoption of the report and accounts (*C. & D.*, October 28, index folio 636), said the balance-sheet was even a healthier one than last year, the actual trading profit, after deducting expenses, including advertising, being 9,024*l.*, as compared with 7,391*l.* in the previous year. Medical authorities had placed a high value on Plasmon, and the War Office and the India Office had recently given large repeat orders for Plasmon chocolate emergency-ration. The motion was carried unanimously, and the retiring director (Mr. H. E. Hoare) was re-elected.

JOHN CLARKE & Co., LTD.—In the Chancery Division of the Dublin High Court on October 30, the Master of the Rolls heard an application by way of petition for the confirmation by the Court of a scheme of arrangement that had been approved of by the debenture-holders, unsecured creditors, and contributories of the company, by which it was pro-

posed to pay the unsecured creditors 12*s.* 6*d.* in the pound upon the amount of their debts (see *C. & D.*, October 21, index folio 603). The compromise had been arrived at as the result of a series of conferences, and the liquidator (Mr. P. Walsh, C.A.) supported it as the best possible offer for the creditors in general. It was stated in the course of the hearing that this was the second case in Ireland under Section 120 of the Companies Act, 1903, and that petition was the mode of procedure adopted in England. The Master of the Rolls said the procedure by petition was a convenient practice, and he would follow it. He granted the prayer of the petition, and allowed the liquidator and the petitioner their costs.

GAZETTE.

The Bankruptcy Acts, 1883 and 1890.

ADJUDICATIONS.

PRICKETT, OWEN, Commercial Street, Llantrisant, Glam., chemist.

TILDESLEY, JOSIAH PERCIVAL, Lyndhurst, Wolverhampton Road, Willenhall, bachelor of medicine.

Private Meeting.

A MEETING of the creditors of Mr. Joseph Emsley, chemist and druggist, 9 Parkhurst Road, London, N., was held at the offices of Messrs. Rawlings & Butt, solicitors, 2 Walbrook, E.C., on October 30, when it was reported that the liabilities consisted of unsecured trade creditors 95*l.* odd, cash creditor (debtor's wife) 250*l.*, less security 60*l.*, 190*l.*, making total liabilities 285*l.* odd. The assets were stated at 338*l.*, and after deducting 27*l.* 4*s.* 11*d.* for preference claims there was an apparent surplus of about 25*l.* It was stated that an execution had been put into the shop by Messrs. Allen & Hanburys, but this had been paid out by the debtor's wife. The business was an old-established one which debtor had had since about March 1910, having previously been in business at Hampstead. The wife's claim as a cash creditor was quite in order. A deed of assignment had been executed to Mr. H. L. Shaw, C.A., of 15 Queen Street, E.C., and eventually it was decided to confirm this deed with a view to the trustee realising the estate and distributing the proceeds, which it was estimated would suffice to pay the creditors in full. The creditors include Huskisson & Co. (12*l.*) and Allen & Hanburys, Ltd. (24*l.*).

BUSINESS CHANGES.

Notes for this section sent to the Editor should be authenticated, and must not be in the nature of advertisements.

THE TIMOTHY WHITE Co. have opened a business in High Street, Uxbridge.

MESSRS. STEWART & Co., chemists, King Street, Maidenhead, have closed their business.

BOOTS, LTD., are opening at Battersea Park Road, London, S.W., and at The Green, Southall.

MR. FINDLAY, chemist, has purchased the business of Mr. A. E. Deed, chemist and druggist, at 41 London Street, Reading.

MR. RICHARDS, of Messrs. Richards & Poll, chemists, 20 High Street, Uxbridge, has purchased the business of Mr. A. A. White, chemist and druggist, at Beaconsfield, Bucks.

MR. W. GATEHOUSE, chemist and druggist, has purchased the business of Sindall's, chemists, at 3 Wood Hill, Northampton, where he has been employed for the past twenty years.

MR. EDWIN PARRY, chemist and druggist, has bought the business of Messrs. Evershed, chemist and druggist, at 163 New Kent Road, London, S.E., which was established in 1830.

MESSRS. YOUNG & Co., chemists, White Hart Street, High Wycombe, Bucks, have closed their old-established business, and transferred the trade to Messrs. Lansdale & Co., Queen's Square, High Wycombe.

MR. J. E. GREENER, chemist and druggist, has opened a pharmacy at 128 Oakfield Road, Liverpool. The fittings were supplied by Messrs. Ayerton-Graham, Ltd., shop-fitters, 106 Duke Street, Liverpool.

TRADE NOTES.

THE ODOL ADVERTISEMENT in this week's "Punch" is a picture like one of our contemporary's own entitled "The Shadow and the Reality," with a neat conversation about Odol appended to it.

MESSRS. THOMAS CHRISTY & Co., Old Swan Lane, London, E.C., have been appointed sole agents in this country for Pepto-Mangan (Gude), which they supply stamped for retail and unstamped for dispensing. The firm inform us that Mr. T. P. Tebbutt is no longer on their staff.

PERFUMERS' MATERIAL.—Messrs. Jago & Jerome, 28 Canal Street, Manchester, are the sole agents in the United Kingdom for Pélassier-Aragon, manufacturers of essential oils and perfumers' materials, Grasse. The special products are mentioned in the company's advertisement in this issue.

NO. 4 EAU-DE-COLOGNE.—Messrs. Fickus, Courtenay & Co., Ltd., 36 Sackville Street, Piccadilly, London, W., the agents for No. 4 Eau-de-Cologne, inform us that their principals exhibited the perfume in the German section of the Turin Exposition and have been awarded a Grand Prix. The Eau-de-Cologne has also received a Grand Prix at the Buenos Aires Exhibition.

TURIN EXHIBITION AWARDS.—Aerators, Ltd., Upper Edmonton, London, N., writing in reference to the Turin Exhibition awards, published in the *C. & D.*, October 21, index folio 613, point out that the Grand Prix entered under the heading of "Beverages" was conferred in respect of exhibit in Class 105, which was not only for refreshing aerated waters, but for machines and systems for making mineral-waters.

GRE-SOLVENT is the name of a paste prepared by Messrs. Perkin & Co., Ltd., Leeds, for cleaning grimy hands and for other similar household purposes where grease or dirt requires removing. We have convinced ourselves by a trial that Gre-Solvent is effective for the purposes intended. The manufacturers are making in our advertising columns a special offer of a trial order, which shows a good profit to the retailer.

SOUTHALL'S CHRISTMAS PERFUMERY CATALOGUE was in the press when we commented recently upon the fine selection of perfumery that they are offering this year. We have now received copies of the 40-page book of illustrations printed in natural colours and gold by the private press of Messrs. Southall Bros. & Barclay, Ltd. It is an excellent example of the art of printing, and is enclosed in a cover of aluminium paper. The 72-page price-list accompanies the illustrations, and, the prices thus being distinct, the illustrations can be shown to customers if the opportunity arises.

BURGOYNE'S EXPORT PRICE-LIST.—The monthly export price-list which has been issued by Messrs. Burgoyne, Burbidges & Co., 12 Coleman Street, London, E.C., has been thoroughly revised and brought up to date by the addition of all the newest remedies and chemical and pharmaceutical preparations of recent introduction. The first fifty-two pages are devoted to drugs, chemicals, and pharmaceutical preparations, after which follow on blue-tinted paper a full list of standardised tinctures, liniments, essences, and alcoholic preparations in bond. Other pages are devoted to effervescent granular preparations, lozenges, capsules, pills, tablets, sera and vaccine, and the specialities of the firm, making the list as complete as it is possible to be.

MESSRS. ALFRED BISHOP, LTD., 48 Spelman Street, London, E.C., are not selling their business, as has been maliciously rumoured. Since the death of Mr. Alfred Bishop, the originator of granular effervescent citrate of magnesia, it has been conducted by his sons, Messrs. Alfred Bishop and Walter Bishop, who have extended the manufactures in several directions, as chemists well know. The company are the victims of another untrue statement to the effect that they have bought another factory for the purpose of making a cheaper grade of effervescents. There is nothing further from their desire and intention

than to associate the name of Bishop with any other than the high-class effervescents for which they are noted.

A BEAUTIFUL CALENDAR for 1912 is being offered by the proprietors of Wright's Coal-tar Soap. It is a reproduction in twelve colours of a Tadema-like picture of a Roman bath, with a group of draped female figures and children (isn't this *the Nursery Soap?*), the picture measuring 9½ by 6½ inches. Upon this calendar monthly "tear-offs" are placed in a manner that does not spoil the picture, and there is a space at the foot to receive the chemist's name. Messrs. Wright, Layman & Umney, Ltd., Southwark, London, S.E., offer to supply chemists with 250 copies of this beautiful calendar free on terms which are mentioned in their announcement this week, and we suggest that early application should be made to them for a supply.

A NEW PRICE-LIST.—Messrs. Lorimer Marshall, manufacturing chemists, wholesale and export druggists and perfumers, Colebrooke Works, Islington, London, N. (Marshall's, Ltd., and Lorimer & Co., Ltd.), have issued a new illustrated price-list of their packed goods. It embraces an exceptionally full list of toilet preparations in collapsible tubes, capsules and perles, cachets, syrup, ferri-phosph. co. (Lorimer), cod-liver oil, malt extract, malt and oil, a wide series of medicinal products, besides toilet preparations, coated pills, sachets, shampoo-powders, medicated wines, extract of beef, and numerous other articles. The list shows the styles of packing and quotes reasonable prices. A copy of it will be sent to any retailer on request.

TESTS FOR SUPRARENAL PREPARATIONS.—With regard to the standardisation of these preparations, Messrs. Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, London, E.C., inform us that their renaglandin is standardised by using 2.5 c.c. of the preparation mixed with 20 c.c. of distilled water, to which three drops of tr. ferri perchlor., B.P., are added, which produces an intense green colour in the preparation, and this colorimetric test must be uniform with each batch of the preparation issued. Comparing the results of the sphygmographic records of the physiological action of the same preparations, they find that the variation of the colour test is quite as accurate as the physiological test, and very much less expensive to conduct.

ZENOBIA PERFUMES.—Mr. W. F. Charles, of Loughborough, informs us that the withdrawal of the Zenobia perfumes from the P.A.T.A. list does not mean that his goods will be allowed to be "cut" in future, they being sold now (as they have always been) at face value under a legal agreement which is printed on each invoice. This agreement was made before the goods were put on the P.A.T.A. list, has been in force all the time, and will be continued. Mr. Charles's sole reason for withdrawal from the P.A.T.A. (with whose objects he is in sympathy) is that certain wholesale houses have been supplying the goods under conditions which are virtually equivalent to "cutting," and the Association has been unable to stop this, but Mr. Charles will.

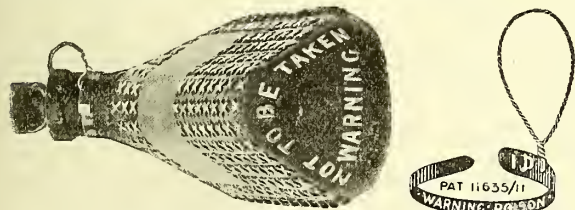
SIGHT-TESTING INSTRUCTION.—There are many chemists desirous of taking up optics as an auxiliary to their business who have not the opportunity of acquiring the necessary practical instruction without which successful work is not possible. These chemists could generally spare an hour or so in the least busy part of the day if a visiting tutor could be found to give them personal instruction. Mr. J. R. Cornish, F.S.M.C., a past-president of the Society of Chemist-Opticians, who has recently disposed of his retail business, has worked out a scheme by which he visits chemists for the purpose of demonstrating the actual procedure of the sight-testing room. Mr. Cornish, whose present address is 384 St. Ann's Road, Haringay, London, N., specialises in retinoscopy and subjective sight-testing, in which subject some chemist-opticians who already practise objective tests may need tuition. The fee charged for the course is moderate, and includes rail-fare in the metropolitan area.

SANGERS' EXTENSIONS.—Works additions afford trustworthy evidence to the vitality of a business, and the busy atmosphere witnessed during a visit to Messrs.

Sangers' works in Euston Road, London, N.W., confirms this deduction. Here, too, new floors have been built above the old building to be used chiefly for bottle-storage in bins. The bins hold small lots of bottles to enable an order to be filled quickly. There are reserves of oils and glycerin stored here also. The top floor holds, in addition, reserve stocks of proprietary articles with a large sale. The floors are of concrete on steel girders, and are electrically lighted and heated with steam radiators. The principal feature of the new building is the additional facilities it affords in working other parts of the premises. A new lift has been installed, and gangways act to join up the old west block, so that that portion of the building gains the advantage of the lift. Connection is also made with the south block. Provision is made for future extension, which it is expected will be required shortly. The premises already completely surround one square and half-way around another.

VALDA PASTILLES.—The latest claimant to public favour is Valda Pastilles, a small crystallised jujube which enjoys a high reputation in France, Spain, Italy, Russia, and other Continental countries as a preventive and remedy for influenza, sore-throat, colds, coughs, and other ailments of the bronchi and throat. The manufacturers of the pastilles have just completed the erection and equipment of works at 13 Hythe Road, Willesden Junction, London, N.W., for the production of the pastilles, and they are now beginning an extensive advertising campaign in London and provincial papers, besides distributing direct to households a million copies of an illustrated pamphlet and calendar dealing with the pathogenic microbes which produce winter ailments of the chest, the pamphlet also including portraits of persons, such as Continental actors and actresses, singers, etc., who use Valda Pastilles and speak highly of them. The pastilles are put up in enamelled tin boxes to retail at 1s. 1½d., and they are stocked by the leading wholesale houses. The manufacturers are supplying retailers with two boxes free of charge in order to enable them to meet the first demand of their customers. If any reader has not received these he should write to the above address.

POISON WARNINGS.—To the numerous suggestions for bottles which shall act as warnings that the contents are poison has been added another by Mr. John Dowell, Globe Works, Chatsworth Road, Clapton Park, London, N.E. The feature of this bottle is that it must be placed in a horizontal position, thus differing from all other bottles in ordinary use. The inventor has, moreover, studded the bottle with projections and added the words "Not to be



Taken," "Warning," and "Poison." A plain space is left upon which the label is to be affixed. The bottle thus more than fulfils the legal requirement of being distinguishable by touch. Mr. Dowell also sends us a specimen of a cork guard for poison bottles, which he has patented. This is a simple contrivance for fastening the cork so that the attention of the user is arrested and he is forcibly reminded that the contents of the bottle are dangerous. Its form is shown in the illustration which accompanies this note.

WILLS PROVEN.

MR. JAMES BUTLER, 43 Great Bridge, West Bromwich, chemist and druggist, who died on May 13, left estate valued at 9887. 10s., with net personalty nil.

MR. JAMES FINDLAY, 14 Beaumont Road, Plymouth, chemist and druggist, who died on June 8, left estate of the gross value of 7,2497., of which 3187. is net personalty.

PERSONALITIES.

Notes for this section sent to the Editor should be authenticated, and must not be in the nature of advertisements.

MR. R. WOOD, Ph.C., 50 High Street, Windsor, has been elected President of the Windsor and Eton Chamber of Commerce.

MR. S. R. ANNESS, J.P., Ph.C., London Road, Ipswich, has been appointed as a visitor of licensed houses under the Lunacy Act, 1890.

MR. WILLIAM GALLAGHER, I.S.O., has been appointed Chief Inspector of Customs and Excise, in succession to Sir Arthur H. Tedder.

MR. AUBREY T. HILL, Ph.C., has been appointed managing director of Messrs. Day & Martin, Ltd., 49-60 Borough Road, London, S.E.

MR. W. YATES, chemist and druggist, 67 Market Street, Shaw, has been re-elected President of the Shaw and Crompton Tradesmen's Association for a second year.

MR. BERNARD ELLIS, chemist and druggist, Sheffield, as a student of Gray's Inn, has passed the Final examination of the Council of Legal Education, and will in due course be called to the Bar.

MR. JOHN LORIMER has arranged to sail from Vancouver by the s.s. *Zealandia*, for Auckland, New Zealand, on November 1. He is to make a tour of New Zealand and Australia.

MR. OSCAR WADDINGTON, chemist and druggist, who has been with Messrs. Symes & Co., Ltd., Hardman Street, Liverpool, is leaving pharmacy in order to take up a post in the newly established Liverpool Repertory Theatre.

THREE Pembrokeshire chemists have been recently appointed to the magisterial bench. Of these, Mr. W. Palmer Morgan, C.C., Ph.C., of Market Square, Narberth, passed the Major examination in 1880, and after gaining experience in London he went to France for four years, where he was manager of two leading pharmacies at Cannes and Pau. On his return to England about twenty-six years ago, he started business in Narberth. Mr. Morgan's public work has been chiefly in connection with the Pembrokeshire County Council, to which he was elected eleven years ago. Mr. Hugh Williams, chemist and druggist, who is in business at Letterston, is an Alderman of the Pembrokeshire County Council. He is a member of the County Main Roads Committee and a manager of the Letterston School. Mr. Tom Lewis, Ph.C., Fishguard, who is the third new magistrate, is a member of the Court of Governors of the Fishguard County School.

BIRTHS.

CROSS.—At 25 Upperton Road, Leicester, on October 21, the wife of J. Wilton Cross, chemist and druggist, of a daughter.

HORSBURGH.—At 26 Findhorn Place, Edinburgh, on October 28, the wife of James David Horsburgh, chemist and druggist, of a son.

MARRIAGE.

RYVES—WILDE.—At St. Wilfred's Church, Sheffield, on October 26, Mr. John C. Ryves, chemist and druggist, Sheffield, to Mary Theresa, second daughter of the late Mr. V. Wilde, of Derby.

POTASH SALTS IN U.S.A.—The Central News Washington correspondent announces, on the authority of the Department of Agriculture, that vast deposits of potash have been discovered in the United States territory. The geological survey has for a long time past been devoting its attention to the potash question, and the present announcement, which leads officials of the Department to predict the end of the German monopoly, is presumably the sequel.

WESTMINSTER WISDOM.

The Week in Parliament.

National Insurance Bill.

Medical Tests.

On Clause 18 of the Bill, Mr. A. H. Gill, M.P., moved, on October 26, to add words to the effect that the rules of approved societies must not provide for medical tests as a condition of membership in respect of benefits under the Act, and said there was a good deal of sickness due to the employment of persons in different trades. For instance, they found among chemical workers a considerable amount of sickness which could not be avoided and which was due to their occupation. These people were compelled to pay the same rate of contribution as those who might work in more healthy industries.

Mr. C. F. G. Masterman, M.P., said they had tried to make provision for those excluded by the medical test, and they were prepared to listen to any criticism, and for those reasons it was impossible for the Government to accept the amendment.

The Chancellor of the Exchequer said it was better that the medical test should be applied by the friendly societies. The medical test made by a friendly society was not such a searching one as was made when a person applied for a position in the Civil Service. It was not very searching, and the five-years' test in Germany was much more severe.

Mr. W. S. Glyn-Jones, M.P., said he could not but think that those who were asking the Government to accept the amendment could not fully appreciate the results of their accepting it. They were asked really to do away with a medical test, which meant that the whole of the actuarial basis on which the contributions had been fixed was to be done away with. The Bill, as it at present stood, did differentiate between the average life and the class they had referred to as deserted, abandoned, and permanently invalided. That was the fact; but he now heard the Labour members asking that the burden of providing for those who were below the average should be cast upon the insured worker. What was going to be the result? Supposing friendly societies and trade unions admitted to their membership, apart from any medical test, it meant that either the contributions had got to be increased or the benefits decreased. No one was more desirous than he was of seeing that the people who were being put into the class of Post Office contributors because of their invalidity should receive greater benefits, but he could not understand any suggestion which meant that they were going to get those benefits at the expense of the worker of average life. When they came to deal with the people who were excluded from the friendly societies because of the poorness of their lives, it was then, he thought, they should be prepared to deal with them. Let those honourable gentlemen on the opposite side of the House who were shedding tears about the class to which he had referred be prepared to offer some suggestion by which that burden could be met by the State and not by the rest of the industrial workers of the country.

After some further discussion the words proposed to be inserted were put from the chair, and negatived.

The Aliens Question.

Mr. W. S. Glyn-Jones, M.P., was a member of the deputation which waited upon the Chancellor of the Exchequer at the House of Commons on Friday, October 27, representing the Jewish friendly society members in this country, to ask for the deletion of the provisions which prevent aliens from becoming members of approved societies. This is likely to be done.

New Clause.

Mr. W. S. Glyn-Jones, M.P., has given notice of the following addition to Clause 35:

"Any such person may require the Insurance Commissioners to pay from time to time to any provident society or fund of which he is a member, to be named by him and approved for this purpose by the Insurance Commissioners, all sums received by them in contributions from such person or from any employer in respect of such person."

Consumption.

On the subject of sanatoria and the provision of machinery for dealing with consumption, the Chancellor of the Exchequer made an important speech to a Welsh deputation on Tuesday, October 31. He said the Bill, as widened in Committee, involves an undertaking to deal with consumption by sanatorium treatment and every other form of treatment that had been or would be discovered in future. It was practically an undertaking to wage a national campaign against consumption wherever it is found, and which, he said later, is a very expensive disease from the point of view of the rates. He was pleased to see that the Bill had progressed so rapidly. They wanted the very best brains, and the only way to get that is by grouping and getting a small number of sanatoria at first in order to have the very best appliances and the very best mental machinery that is available for the purpose.

Questions and Answers.

In the House of Commons on Monday Mr. G. N. Barnes, M.P., asked the Chancellor of the Exchequer (1) whether dental attention, including the supply of artificial teeth, would be allowed as a medical benefit if a medical attendant under the Bill certified that illness arose from septic teeth and gums, and that he was unable to do anything further for the insured person unless his teeth were properly attended to; and (2) whether a company, which had been proved to have been guilty of fraud, would be allowed to establish an approved society?—Mr. McKinnon Wood, M.P., replied that in regard to the first part of the question the matter would be one for the decision of the local Health Committee, subject to the regulations of the Insurance Commissioners. With regard to the second, the Insurance Commissioners may, on sufficient grounds, withhold or withdraw approval from a society or separate section of a society.

At the same time Mr. F. G. Kellaway, M.P., asked the Chancellor whether he is aware that the Pharmaceutical Society of Great Britain does not recognise the pharmaceutical certificates of any British Colony, and if under the National Insurance Bill the holders of British-Colonial certificates who are in business as chemists in this country will be prohibited from supplying drugs and medicines?—Mr. McKinnon Wood, M.P., replied that he understood the Council of the Pharmaceutical Society of Great Britain is now engaged in negotiations with Colonial representatives. It is hoped that it might prove possible to formulate a by-law providing for the admission to the register of chemists and persons holding Colonial certificates of qualification equivalent to the British qualification.—Mr. Kellaway asked whether these negotiations would be concluded in time to make it possible to apply them to the Insurance Bill now before the House. Mr. Wood said he was sorry he was not able to reply to that question.

Mr. McKinnon Wood, in the course of a reply to Mr. Amery on Wednesday, said that so far as he was aware the most important amendments affecting the medical profession were dealt with on Clause 14. Points of detail arising out of the decision of the Committee concerning the relations between the societies and the medical profession have been under discussion and will be dealt with on report.

In a reply to Mr. Locker-Lampson he stated that it is a misapprehension to suppose that a panel of doctors will be appointed for an approved society. It will be appointed for the area of a local Health Committee. The administrative details necessary to provide for the temporary or permanent migration of insured persons from one such area to another can be dealt with by the regulations to be made by the Commissioners under Clause 14. The utilisation of existing provident dispensaries will depend largely upon the use made in each case by the local Health Committees and Insurance Commissioners of their powers under Clause 14.

Sir John Lonsdale, M.P., asked on Wednesday whether the Chancellor of the Exchequer was aware that under the existing rules of the L.G.B. for Ireland dispensary medical officers are prohibited from employing assistants; whether, in view of the additional work which will be thrown upon them, this prohibition will be removed; whether dispensary medical officers who are required to attend deposit contributors in their area will be remunerated upon the same scale as medical practitioners with whom arrangements are made by the local Health Committee; and whether it would be practicable to provide for the superannuation of dispensary medical officers on reaching sixty-five.—The Financial Secretary (Mr. McK. Wood) replied that Clause 59 did not require the same scale to be prescribed in the two cases specified. It would not be possible to provide under the Bill for the superannuation of the dispensary medical officers.

A. & F. PEARS, LTD.

The President of the Board of Trade was asked by Mr. Hunt in the House on Wednesday whether he was aware that A. & F. Pears, Ltd., the soapmakers, had decided to establish works in America because of the American tariff and because American soapmakers copy their goods, advertisements, and name, and send their goods into British markets free; and whether he proposes to take any steps to prevent this handicap to British trade.

Mr. Buxton, in reply, said: The hon. member appears to have correctly reproduced the statement made by the chairman of the company at their recent general meeting. The proposal to erect a factory in the United States is not likely, I understand, to lead to any reduction of the staff employed in this country. I do not propose to take any action in the matter.

Mr. Hunt: Is the right hon. gentleman aware that this capital driven abroad by high tariffs gives wages and employment to foreign workpeople and deprives our own workpeople of wages and employment?

Mr. Buxton: I am told that that is not a correct statement with regard to the action of Messrs. Pears. I have seen in papers that, in consequence of high tariffs in other countries, manufacturers have come here to carry on their manufactures here. (Cries of "Name?" and "Westinghouse" and "Singer's.")

Mr. Hunt: Is the right hon. gentleman aware that the chairman of Pears distinctly stated that they had been driven abroad by high tariffs? (Cries of "No.")

Mr. Bonar Law: Is the right hon. gentleman correct in stating that there will be no effect on employment on Pears' works in this country when admittedly they have erected their works in America in order to take American trade that was previously done by them from here?

Mr. Buxton: I do not think that necessarily follows. It is a question for debate, and I cannot be expected to answer it in reply to a question.

Mr. Watt: Arising out of that, can the right hon. gentleman tell us the price of soap in America? (Loud laughter.)

[Mr. Thomas J. Barratt (chairman and managing director of the company) writes: "Consequent upon some remarks made at our shareholders' meeting on the 26th inst. by Sir Thomas Dewar we find that, unfortunately, a general impression has arisen that owing to our proposal to establish ourselves inside the tariff-wall of the United States our factories in this country (at Isleworth) would then be closed. Will you permit us to contradict this entirely, such an intention being absolutely without any foundation whatever?"]

SHOPS BILL.

The Home Secretary (Mr. McKenna) informed Mr. Ian Malcolm on Monday that Mr. Winston Churchill is to reply to all questions concerning the Shops Bill. In a written answer to a question by Sir William Byles, Mr. Churchill said the Government have every hope of passing this Bill into law during the present Session. The question whether the clauses to restrict Sunday trading should be included in the Bill is, however, under serious consideration at the present time.—The Prime Minister informed Mr. Malcolm on Tuesday that he is not in a position to say when the Bill will be taken, but ample notice will be given.

CASH ON DELIVERY.

The Postmaster-General informed Capt. Murray, M.P., in the House of Commons on Monday, that the Cash on Delivery Postal Service is at present in operation only between the United Kingdom and certain British Colonies and agencies in Egypt. He is considering the question of establishing a similar service with European countries, but not establishing an inland service of this nature.

We are informed that in the new service the sender will pay a special charge of 2d., and the delivery office will forward the amount collected less a small delivery charge and the poundage of the order. In no case will the sum to be collected on delivery have to exceed 20s. Before introducing the system the Postmaster-General wishes to have the views of the trading community. The system, it is contended, would have the effect of protecting traders from fraud at the hands of bogus firms, since the

latter would have to pay the value of the goods before the parcel was handed to them.

VIVISECTION INQUIRY.

The Royal Commission on Vivisection, which has been sitting for some years past, first under the chairmanship of the late Viscount Selby and then of Mr. Abel J. Ram, K.C., has concluded its labours, and its recommendations are, it is understood, this week being forwarded to the King, through the Home Office. His Majesty signed the documents on Wednesday. There are, it is understood, two reports, voicing the opinions held by the two rival camps. The Commission was appointed to inquire into and report upon the practice of subjecting live animals to experiments, whether by vivisection or otherwise, and also to inquire into the law relating to the practice and its administration, and also to report whether any, and if so what, changes are desirable. The personnel of the Commission is as follows: Mr. Abel J. Ram, K.C. (Chairman), Colonel Mark Lockwood, M.P., Sir William Collins, M.D., Sir W. Selby Church, Sir J. McFadyen, Sir Mackenzie Chalmers, Mr. W. H. Gaskell, and Dr. Wilson.

FOOD REFORM COMMITTEE.

We are informed that, in view of the fact that the President of the Local Government Board will be unable to proceed during the present Session with his Milk Bill, there is no special urgency for the holding of any meeting of the Parliamentary Food Reform Committee which sat earlier in the year under the chairmanship of Mr. J. S. Fletcher, M.P. It is probable, however, that a meeting may be held in the course of the present sittings, when other matters, including the adulteration of food, and possibly also the question of patent and proprietary medicines, may be discussed.

BILLS ABANDONED.

The impotency of the Parliamentary machine for dealing with minor measures when Bills of first-class importance are occupying attention is well illustrated by the number of legislative proposals of secondary importance which have been thrown overboard for the present Session. Among the Bills in this category which have been dropped are those relating to the Abolition of Vivisection, Calendar Reform, Character Notes, Daylight Saving, Fertilisers and Feeding-stuffs Act, Holidays, Merchandise Marks (No. 2), Nurses' Registration, Registration of Firms, Sweated Manufactured Goods (Importation Prevention), Vaccination Acts (Repeal), and Veterinary Surgeons Act (1881) Amendment. Capt. Craig's Poisons and Pharmacy (Ireland) Bill was formally set down for second reading on Monday, but, as stated last week, this also has been abandoned for the Session.

CANADIAN NEWS.

(From the "C. & D." Correspondent.)

POIVRETTE (ground olive-stones) has lately been imported into Canada in large quantities, and the authorities are watching for its reappearance as an adulterant of pepper.

CANADIAN MANUFACTURERS' ASSOCIATION.—The fortieth annual meeting of this Association was held at Toronto on October 10. The President's address referred to the Customs tariff, and said that the members would be ill-advised to ask for a material increase in the rates of duty.

MOTTO FOR THE COCOA PEACE PARTY: "The nib is mightier than the sword."—*Punch*.

THE STATEMENT that a Nobel Prize is to be awarded to Mr. Thomas Edison for Physics has aroused a considerable amount of pleasurable excitement among children all over the world, who take it to mean that a really tasteless castor oil has been discovered at last.—*Punch*.

A LITERARY ADVERTISEMENT.

Yet, though some help is patently required
By those whose locks leave much to be desired.
Not being there, or being there, but tired,
You need not fear the springs of song are shut,
Not though you've had the precious tresses cut:
Try some of Hinx's hair-oil for the nut!—*Punch*.

SCIENTIFIC PROGRESS.

Temperatures under this heading are on the Centigrade scale.

A New Fatty Acid.—Bongault and Chavaux ("Jour. de Phar. et de Chim.," 1911, 337) have extracted a hitherto unknown fatty acid (which they call lactarinic acid) from various fungi of the genus *Lactarius*. It is a keto-stearic acid of the formula $C_{27}H_{48}O_8$, crystallising in white leaflets melting at 87° . It forms an oxime melting at 59° - 61° .

Green Oak Lichen.—A large quantity of the lichen, *Evernia prunastri*, is gathered annually in Austria, and is used as a general tonic and also as a remedy in cases of phthisis. It has now been shown that the active principle of this lichen is an acid, evernic acid, $C_{17}H_{16}O_8$, which easily decomposes into evernicin acid, orcin, and carbonic acid.

New Remedies.—*Atophan* is phenyl-quinoline carboxylate a new remedy for the treatment of gout and rheumatism. It forms small colourless needles melting at 208° - 209° , and is soluble in alkalis and acids. One gram may be taken three times a day. *Ergoxanthin* is a solid amorphous body extracted from ergot of rye. It is stated by Wenzel to be a definite compound, and is suggested as a useful reducer of the blood-pressure.

A New Strychnine Compound.—According to Leuchs and Schneider ("Berichte," 41, 4393), if strychnine be treated with sulphur dioxide in the presence of oxide of manganese, crystals of strychnine-monosulphononic acid are formed. This body has the formula $C_{21}H_{22}O_5N_2S$, and melts, with decomposition, at 350° - 360° . It is insoluble in acid solutions, but dissolves in alkalis, from which it is precipitated by a current of carbonic-acid gas.

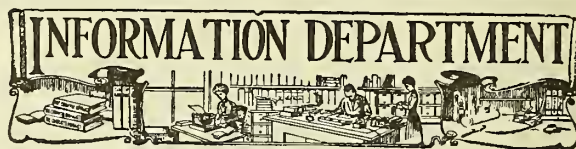
Epicamphor is a new isomeric of ordinary camphor prepared by Lankshear and Perkin. Camphor-carboxylic acid is reduced and water then eliminated, when bornylene-carboxylic acid results. Further reduction produces camphane-carboxylic acid which, by bromination, hydrolysis, and final oxidation, yields epicamphor. It resembles ordinary camphor in almost all its properties, and has the same odour. It melts at about 165° , and forms an oxime melting at 102° (camphor oxime melts at 119°).

Essential Oil of Cardamine amara.—Kuntze ("La Parfumerie et Savonnerie Françaises," 1911, 207) has investigated the sulphur compounds occurring in this essential oil, and has found that, as indicated by Feist some years ago, there is present an optically active thiourea. He finds this to have a specific rotation of $+20^\circ$, but he was unable to obtain it in a state of absolute purity, as the crystals were always accompanied by traces of another optically inactive thiourea. The main sulphur constituent of the oil is secondary *d*-butyl-thiourea.

A New Essential Oil.—Francesconi and Sanna have examined the essential oil distilled from the flowering herb *Eupatorium fruticosum* ("Gazzeta," 1911, 395). They find it to have a specific gravity 0.8257 to 0.8692 and an optical rotation varying from $+20^\circ$ to $+45^\circ$. The refractive index is 1.4783 to 1.4862, and the boiling-point ranges from 167° to 200° . The principal constituents of the oil are terpenes and sesquiterpenes, but a small amount of esters is also present. The ester-value increases with the altitude at which the plant is grown. The oil from the flowers also contains a small amount of free alcohols.

Ash-determination.—E. Fleurent and Lucien Lévi ("Comptes Rendus" and "Chem. News") state that in determining ash by calcination in animal and vegetable products there is a loss of phosphorus, varying between very wide limits, due to (1) The action of carbon; (2) the action of silica on the acid phosphates in the ash; (3) the conversion of the phosphorus into a volatile compound by fatty matter present. The authors recommend the following procedure: (1) The removal of fat in materials which are rich in it; (2) the carbonisation of the substance in a platinum crucible at as low a temperature as possible; (3) treatment of the powdered residue with milk of lime; (4) evaporation to dryness and calcination by Schloesing's method. In the final weighing the amount of lime added must be taken into account.

Rose Odours.—An important paper by Semmler and Schossberger appears in the "Berichte" (1911, 991), in which they describe the preparation of isogeraniol and an isomer of geraniol which has the odour of the rose. They state that by boiling certain aldehydes with acetic anhydride and sodium acetate, they are converted into enolic acetates. In the case of citral the enolic acetate has the formula $C_{15}H_{24}O_4$. This boils at 118° at 9 mm., and has sp. gr. 0.942 and refractive index 1.501. It can be reduced by sodium amalgam and methyl alcohol to isogeraniol. This body has a well-marked rose odour, and boils at 102° at 9 mm., has a sp. gr. 0.879 at 20° , a refractive index 1.473, and forms a di-phenylurethane melting at 73° .



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INFORMATION WANTED.

We would be obliged if any reader would inform us by post-card or telephone who are the makers or agents of the articles mentioned in the following inquiries received since our last issue:

- 216/25. Crème Chloris.
- 214/24. "Lung-ti-tee."
- 214/33. "Conquest" truss.
- 211/692. Stockport remedy.
- 216/39. "Equiol": makers.
- 217/43. "Theolite": supply.
- 214/25. Formalin soap in bars.
- 214/34. "Germide," a disinfectant.
- 211/16. Royal Tampon nasal-inhaler.
- 211/691. "Hooper's Podoph. Pills."
- 214/23. "Lisco" body-belts: supply.
- 214/46. "Californian Food": makers.
- 212/53. Heinenmann's worm capsules for dogs.
- 211/69. "Mohammed Arabian Musk Perfume."
- 210/12 and 217/43. "Saxolite": where obtainable?
- 211/690. "Omoro's Phosphated Petroleum Emulsion."
- 217/34. "Compacta" seamless steel hypodermic-needles.
- 210/120. "Eucamphor" or "Eucamphol" Co.: address.
- 216/390. "Livingstone's Medical Handbook": publishers.
- 216/24. Taylor's "Immaculate Sapolis" (Taylor & Co., King's Cross).
- 215/1. "Ung. Schweissinger," a yellow oxide of mercury ointment for eye-treatment.

INFORMATION SUPPLIED.

During the past week we have answered inquiries as to where the following articles can be obtained, and in many cases we have given the actual makers. The information will be repeated to any other inquirers who send to this Department a stamped and addressed envelope for the purpose.

- "Aboy" polish (209/72).
- "All about Methylated Spirit," booklet (211/15).
- Alligator ointment (207/17).
- Aniline dyes, makers (209/16).
- Anderson's vagina capsules (210/7).
- Anschutz camera (215/13).
- Antiseptic pine blocks (for lavatory cisterns) (215/1).
- Auteclaves (208/52).
- Belvoir's specialities (210/13).
- Celluloid (scrap) (213/38).
- Chocolate and phenolphthalein tablets (216/2).
- Combs (dressing) (212/7).
- "Compactum" hypodermic cases (213/57).
- Cottonseed oil (213/59).
- Domestic Year Books (for chemists) (242/25).
- Drysalteries (214/7).
- "Forest Flower" cologne (211/66).
- Gutta percha tissue, makers (210/57).
- "Icykol" (208/53).
- "Invicta" soap (206/41).
- "June Roses" perfumery (216/13).
- "Koh-i-noor" brand rubber goods (210/25).
- Kresophen (214/46).
- Liquid paraffin (206/700).
- Lavender-flower sachets (211/58).
- "Libra" photographic goods (199/31).
- "Lion" brand essential oils (207/17).
- Machinery for gelatine-coating pills (French inquiry) (212/62).
- Manola wine (206/39).
- Opal glassware (211/21).
- Ozokerit purified (206/70).
- "Pine" bath extract (211/69).
- "Pitsno" health-salt (199/60).
- "Poisonous" poison-bottle (214/36).
- "Postlip" English filter papers (209/19).
- Russian turpentine (208/45).
- Sand soap-balls (210/4 and 213/14).
- "Solvin" (214/14).
- "Svrolit" (206/701).
- "Universal" tooth-brush stand (214/19).
- Wassmuth's "Sanum" (216/40).
- Wicker-covered bottles (209/36, 214/2, and 214/37).
- Xyol (210/57).
- Zinc sozoiodolate (216/39).

PRACTICAL RESULT.

From a Manufacturer of Pharmaceutical Specialities:

"We are much obliged to you for giving our name to Messrs. — as suppliers of calamine. We have received an order from them." (199/7.)

OBSERVATIONS & REFLECTIONS.

By Xrayser II.

Among the Most Interesting Pages

of the *C. & D.* are those devoted to reports of Association Affairs, in which one rarely fails to find matter for consideration and comment of more than local significance. What has particularly struck me in this connection during the last two or three years is the exceedingly "live" character of the discussions at the meetings of these Associations, in which respect there has been an immense improvement since the time—a very long time—when I used to attend those of a still existing Association in a certain Northern town. That particular Association was, I fancy, looked upon by others than its own members as a sort of museum of pharmaceutical cranks and fossils, and certainly it would be difficult to imagine anything duller, less profitable, or less in touch with actualities than most of its meetings as I remember them. The case is very different to-day, both with it and with Associations generally. There is, for instance, in your last week's batch of reports, quite

A Plethora of Matter

affecting both our immediate interest and our technical equipment; and not only are the papers read important in themselves, but the discussions evoked appear to have been almost equally valuable. The latter is perhaps the more encouraging feature of the two. An interchange of views on any subject is more fruitful than mere lecturing, and the mental activity it shows argues well for the future of pharmacy. We are no longer "dumb, driven cattle," or a fortuitous concurrence of unrelated atoms; we are achieving something like solidarity and a corporate life. For this we have, no doubt, Mr. Lloyd George and Mr. Winston Churchill largely, though not exclusively, to thank. Apart from legislation affecting our business, we are drawing together more and more closely every year. The only exception appears to be London. I am amazed that every borough in the Metropolis has not its own local Association; as a matter of fact, there are, I believe, only two within the limits of the London Postal Delivery. How is this? Surely there is as much need of them in Islington or St. Pancras as at Slowcombe-on-Sea.

The Pursuit of the Ideal

in pharmaceutical politics, to the effect of which Mr. Lennox attributes our present discontents, was undoubtedly a mistake, because the ideal aimed at was, if not a false, yet certainly an impossible one. "Pitch thy behaviour low, thy projects high," says Herbert; but we "went for" our project as if it were immediately attainable, forgetting that ideals are often rather guides than goals, and can never be reached by ignoring facts. And this, I am afraid, is the answer to Mr. Holland's "ethical contribution on 'The Relation of Therapeutics and Pharmacy.'" His ideal of the relation that should subsist between the pharmacist and the physician is an admirable one, but is it feasible? "The former should aid the latter in choosing the proper mode of exhibiting a drug, and be ready to make good any of the physician's shortcomings. . . . The medical man would look upon this assistance in the light of suggestion and not of interference." I am not quite sure of it. My relations with doctors have in the main been friendly, and sometimes intimate; but although Mr. Holland's ideal may be realisable in individual cases, I am afraid that

medical men are as a class too jealous of the pharmacist, too sensitive as to their own position, too entirely convinced that therapeutics are their own peculiar province, into which it is presumption for us, as tradesmen, to intrude, for such relations between them and us ever to be generally established. Nor is our reputation with them reassuring; rightly or wrongly they regard us as only too apt to encroach on their prerogatives, and they are not often found ready to welcome offers of assistance from us. My experience is that, although they are sometimes glad enough of information with respect to such matters as dosage, it is wiser to wait for an intimation that it would be welcome than to volunteer it. Any suggestion that presupposed a "shortcoming" on their part would in ninety-nine cases out of a hundred be keenly resented.

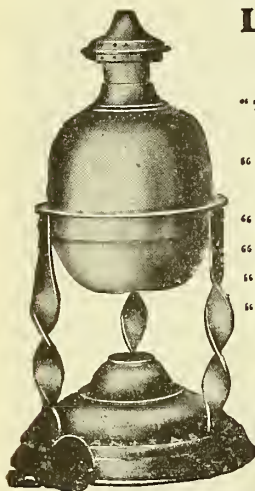
A New Edition

of "Pharmaceutical Formulas" has almost ceased to be an event, for I notice that this is the eighth since the book was first published in 1898. That a work of this character should so hold its own as to consistently call for frequent editions is a remarkable tribute to its popularity and its usefulness. I sometimes wonder what we used to do before its first appearance thirteen years ago. In these days it was necessary, as Professor Atfield said, to consult several books; to-day we take Atfield's advice to go to the P.F. "first"; and it is a rare occasion indeed that we need to go further. If in these so-called hard times some pharmacist thinks he is compelled to sacrifice the luxury of more than one reference book, my advice to him is that whatever else he denies himself he cannot afford to be without "Pharmaceutical Formulas." Of the new features in the volume I am much impressed with the chapter on skin-creams, which alone will be to many chemists worth the whole price of the book. The change in the public taste in the direction of cosmetics, as they used to be called, and skin-creams for the enhancement of personal appearance has been very marked during the past few years, and if I am not mistaken the demand for these preparations will go on increasing; it will be to our interest to take advantage of this demand, and "Pharmaceutical Formulas" is all that is necessary to enable us to make our own specialities. The revision also of the matter on horticultural requisites, with the appendix on insect-pests, ought to be valuable, especially to our country brethren. Glancing the other day over the *C. & D. Diary*, where I get frequent inspiration in the quotations from my predecessor's genial wisdom, I came across this sentence: "All fruit trees ought to be chemically washed before the end of February, and chemists ought to supply the chemicals for the washing." The new volume not only tells the reason why washing is necessary, but gives formulas for the mixtures employed in the work, so that it is now an easy matter, when a customer wants a remedy for green-fly or red-spider or gooseberry caterpillar, to turn up the index and learn all about it. With this useful information the chemist should make himself indispensable to his horticultural and agricultural neighbours and clients. I am specially glad to observe the statement in the preface that the initials "P.F." are now recognised by the Board of Customs and Excise as sufficient for identification of formulas; this will be of great service to many who object to use the full title.

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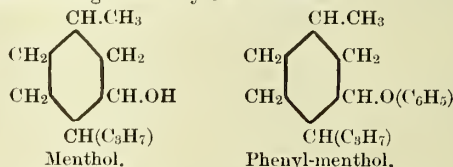
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LIQUORS

Editorial Articles.

Menthol.

An interesting paper dealing with the chemistry of menthone and the synthesis of homologues of menthol by Murat has just been published ("Journal de Pharm. et de Chim.," 1911, 294). The principal point dealt with is the synthesis of homologues of menthol, which has an intimate relationship with the chemistry of menthol itself. His experiments were carried out (1) on natural menthone and (2) on synthetic menthone. The natural menthone used had a specific gravity 0.8941, optical rotation -23.6° , and boiling-point $208^\circ-209^\circ$. This was condensed with bromide of phenyl-magnesium, dissolved in anhydrous ether. A tertiary alcohol results, which is purified under reduced pressure. This alcohol is a phenyl-menthol, its relationship to menthol being shown by the formulæ:



Phenyl-menthol is a colourless liquid boiling at 175° at 20 mm. pressure, of specific gravity 0.9962 at 0° and 0.9843 at 20° , and of refractive index 1.5270. Its optical rotation is -16.32° . A similar condensation takes place between menthone and cyclohexyl chloride, a hexyl-menthol resulting in which C_6H_{11} takes the place of C_6H_5 shown in the phenyl-menthol formula. The inactive artificial menthone also used was obtained by the reduction of thymol by means of metallic nickel, the thymo-menthol formed being decomposed by means of finely divided copper at 300° , artificial menthone resulting. This menthone is a colourless liquid boiling at 212° . It condenses in a similar manner to that first described, and with phenyl-magnesium bromide yields an isomeric phenyl-menthol of specific gravity 0.995 at 0° , refractive index 1.526, and boiling at 170° at 18 mm. An

isomeric hexyl-menthol was also prepared, and numerous other homologues can easily be synthesised.

In discussing the commercial position of menthol last week we referred to the possibility of obtaining menthol from American peppermint oil. The late Professor Maisch demonstrated many years ago that the menthol can be extracted from this oil after the lower boiling fractions have been separated by distillation, and from time to time it has been reported that dementholised American oil has been found on the market. There is, however, little doubt that comparatively little, if any, menthol is made in the United States, the reason being that it is not "a paying proposition" on the large scale. A comparison of the characters of American and Japanese oils will show why. These are :

	Total Menthol. Per cent.	Ester Menthol. Per cent.	Free Menthol. Per cent.
American oil ...	50 to 60	7 to 12	40 to 50
Japanese oil ...	72 to 78	3 to 5	70 to 75
Dementholised oil ...	40 to 50	5 to 7	44 to 52

Menthol is extracted by a freezing process, and it may fairly be assumed that as much as can be extracted with ease is actually extracted. A normal Japanese oil, therefore, which may contain, say, 75 per cent. of menthol, is frozen and yet retains 40 per cent. or more of menthol which is held in solution by other constituents of the oil, so that well under half is actually extracted. It is probable that the higher amount of ester menthol present in American peppermint oil has some effect on the solubility of menthol in the liquid portion of the oil, for it appears to be agreed generally that it is more difficult to get American oils to freeze than Japanese oils containing the same amount of menthol, and that the difficulty is greater when the esters are higher. So that even assuming that about half the menthol could be frozen out—which is doubtful—it would mean that about 4 lb. of American oil would be required for 1 lb. of menthol. The cost of the raw material would therefore be about 48s. for 1 lb. of menthol, leaving 3 lb. of very poor quality oil containing about 25 to 28 per cent. of menthol. Incidentally attention may be drawn to the papers by Thoms recently abstracted in this journal, in which he showed that Japanese plants can apparently be cultivated in Germany and in the German colonies with success, the resulting oil containing a very high amount of menthol. If this should prove to be a success on a commercial scale, the question of fluctuation in the price of menthol would ultimately be far less serious than it is now.

Poisonings in Scotland.

THE principal point of interest to the drug-trade in the annual report for 1909 of the Registrar-General of Births, Marriages and Deaths in Scotland lies in the statistics regarding deaths from the effects of poisons. The population of Scotland, as enumerated on April 2, 1911, is given in the Preliminary Report of Census as 4,759,445, and the total deaths registered in 1909 was 74,632. The deaths from poisoning are still further on the down grade, these numbering ninety-four if another thirty-four fatalities due to anæsthetics be excluded. Suicides used poisons in twenty-two cases, this low figure comparing favourably with Ireland, where the more complete control of the sale of poisons has resulted in low mortality returns in regard to deaths from poisons. The report affords every testimony to the increasing care which Scottish chemists exercise in vending poisons. We have compiled a table from those given in the Registrar-General's reports, which allows

comparison to be made of the accidental and suicidal deaths from poisoning during 1908 and 1909 :

Poisons Used	1903		1909	
	Accident	Suicide	Accident	Suicide
Acid—				
Carbolic ...	9	5	9	—
Carbonic (gas) ...	1	—	1	—
Hydrochloric ...	1	1	1	—
Hydrocyanic ...	1	—	—	3
Nitric ...	1	1	—	—
Oxalic ...	1	2	3	2
A. B. C. liniment ...	—	—	1	—
Alcohol ...	2	—	1	—
Ammonia ...	2	2	2	1
Anæsthetics—				
Chloroform ...	22	—	25	—
Ether ...	1	—	—	—
Chloroform and ether...	1	—	1	—
Stovaine ...	1	—	—	—
Kind not stated...	11	—	8	—
Barium nitrate ...	—	—	1	—
Blaud's pill...	—	—	1	—
Carbon monoxide...	4	—	3	—
Chloral hydrate ...	2	—	1	—
Chloral and bromide ...	—	—	1	—
Chloral and opium ...	1	—	—	—
Chlorodyne...	—	—	1	—
Chloroform...	3	1	2	1
Coal-gas ...	10	3	11	4
Cocaine ...	1	—	—	—
Ergotin ...	—	—	1	—
Hemlock ...	1	—	—	—
Laburnum ...	—	—	2	—
Mercury and its salts ...	3	—	1	—
Narcotic ...	4	—	2	—
Nicotinic ...	—	—	1	—
Opium and its prepara-				
tions ...	27	4	12	6
Phosphorus ...	—	—	3	—
Poisonous berry ...	—	—	1	—
Poisonous gases ...	3	2	3	—
Potassium cyanide ...	—	1	—	2
Strychnine ...	2	1	1	1
Strychnine (Easton's				
syrup) ...	—	—	1	—
Trional ...	1	—	—	—
Vermine-killer ...	—	1	—	—
Veronal ...	1	—	—	—
Unspecified ...	2	3	5	2
Total...	119	27	106	22

A curious result of non-technical editing in the report is the distinction drawn between poisoning from "cyanide of potassium" and "cyanide of potash."

Chinese Produce.

WITH the fate of the Chinese Empire hanging in the balance, it may not be inopportune to inquire into the effect which the civil war has had, or may have, upon those drugs with which China supplies us, chief among which are rhubarb, musk, galls, star-anise and cassia oils, wood oil, albumen, antimony, and soya. The effect on prices of the above, it may be said, will be in proportion to the length of time which elapses before law and order are restored. At the time of writing nobody knows what will be the precise outcome of the present conflict, but that the final results will be beneficial to the Chinese Empire there does not seem much doubt. Already, the attitude taken up by importers of Chinese drugs and essential oils is one of decided reserve, as it seems inevitable that there will be a cessation of shipments pending a more settled state of affairs. Rhubarb is the most important drug to feel the effects of the warfare, and

although it is difficult to give a standard price on account of the range of quality, taken all round the drug is about 1*d.* per lb. dearer than it was a month ago, principally on account of the fact that buyers have shown eagerness to secure supplies, while some spot holders talk of withdrawing their supplies from the market. For the past three years the rhubarb-market has been comparatively weak, especially the Shensi and Canton descriptions; but as the stocks are now low, the rebellion may prove fortunate for the holders, although it cannot yet be said that the effect is marked. Star-anise oil has, however, risen rapidly, the spot price during the month of October having advanced from 5*s.* to 7*s.* per lb., and for shipment from 4*s.* 6*d.* to 5*s.* 3*d.* c.i.f. Cassia oil, which has long been in a neglected condition, has also appreciated from 4*d.* to 6*d.* per lb., both on the spot and for shipment, the chief demand being for oil of high percentage. These two articles are produced in the provinces of Kwang-si and Kwang-tung, which provinces are a centre of the disturbances. The oils are shipped almost exclusively *via* Pak-hoi to Hong-Kong, the principal market. Hankow wood oil has risen appreciably (about 7*s.* 6*d.* per cwt.), while there are few, if any, offers to arrive. The bulk of this oil is shipped from the port of Hankow, where, it is hardly necessary to state, history is being made. The fact that the United States has been unable to buy wood oil has led to an active demand for soya oil in Manchuria for early shipment. Chinese galls—a minor product so far as London is concerned—have Hankow for one of the centres of distribution (two-thirds of the exports), and importers have withdrawn all offers. The importance of the market may be judged by the fact that last year China exported 65,890 piculs of galls, of which Germany and Belgium imported 40 per cent. and 25 per cent. respectively. The trade has been increasing on the whole, but prices, previous to the civil war, were decreasing. It remains to be seen whether the future supplies of Chinese antimony will be seriously interfered with, as the large mines at Changsha are a centre of the affected area. Among other articles of which China has a large export is egg albumen, the price of which has also advanced. A somewhat keener interest has also been shown in Chinese cantharides, but Tonquin musk, which is a small article so far as London is concerned, has remained unaltered. Apart from the political or wider economic problems raised by the great changes now taking place in China, the commercial future of China is likely to remain one of the most interesting problems for some time to come.

Tartaric-acid Guarantees.

"The Grocer" was asked recently if a manufacturer's guarantee that tartaric acid satisfied the test of the British Pharmacopœia, 1885, would be recognised for the purposes of the Sale of Food and Drugs Acts, and it replied quite correctly that the 1885 test for acid is now obsolete in face of the 1898 tests, and that the 1885 B.P. does not protect buyers. This has rather astonished dealers, one of whom sends the following extract from a letter received from the leading English manufacturers:

"We are in receipt of your favour, and in reply thereto, tartaric acid is usually sold on the 1885 British Pharmacopœia test, because it is considered by most makers impossible to meet the 1898 test. Notwithstanding what 'The Grocer' says, the 1885 test is the general one upon which tartaric acid is sold. As no doubt you are aware, the Local Government Board in 1907 fixed a standard for tartaric acid, and this standard is very much more to the point than the Pharmacopœia, which in many respects is hopelessly ambiguous. We guarantee our acid to meet the requirements of the Local Government Board standard, and so long

as tartaric acid passes that standard there is no fear of prosecution."

There is no doubt that large operators in tartaric acid eschew the 1898 B.P. standard for it, and that the limits for arsenic and lead suggested by the Local Government Board are likely to be accepted by the B.P. authorities; but these facts do not support the contention that a warranty based on the 1885 B.P. is good for Sale of Food and Drugs Acts purposes. The 1885 B.P. ceased to be legally binding upon anybody as soon as the 1898 one was gazetted in 1898, and warranties based on it are merely of *pro tanto* value.

Determination of Ketones in Essential Oils.

Mr. E. K. Nelson ("Journ. Ind. Eng. Chem.," III., 8) has made a somewhat exhaustive examination of Walther's hydroxylamine process for the determination of ketones and aldehydes, and the results obtained are of some value as indicating the limits of accuracy which may be attained by this process. There is one point, however, which Mr. Nelson appears to have overlooked. When Walther published his process, which consists in boiling a known amount of the sample with hydroxylamine hydrochloride and sodium bicarbonate, and titrating the excess of hydroxylamine, it was found that the results were not very accurate in some cases. Mr. A. H. Bennett, in examining the process as applied to the determination of citral in lemon oil, came to the conclusion that there was a loss of hydroxylamine in the current of carbonic-acid gas which had slowly been evolved, and proposed to replace the bicarbonate by caustic alkali. In this form Walther's process enjoys the confidence of essential-oil analysts. Mr. Nelson, however, has carried out his determination by the original process, and as it is well known that the ketones present in essential oils are difficult, and in some cases almost impossible, to purify, it is obvious that two factors must be taken into account in considering Mr. Nelson's results: firstly, the possibility of impurity of the specimens used, and, secondly, the loss of hydroxylamine in the manner indicated. These two possible sources of error may well balance each other. The following are typical examples of his determinations:

Body	Amount Used	Time of Boiling, Minutes	% Found
Carvone	... 2.3508	... 30	93.18
"	... 2.3343	... 60	97.51
"	... 2.2819	... 60	99.41
Pulegone	... 2.2852	... 30	101.77
"	... 2.3228	... 60	100.77
Camphor	... 1.0250	... 30	92.3
"	... 2.0509	... 120	99.03
Thujone	... 2.2903	... 60	97.3
Meuthone	... 2.1416	... 60	97.5
Fenchone	... 0.9026	... 120	85.7
"	... 1.1823	... 60	50.6
Benzaldehyde	2.5278	... 60	96.7

In the case of fenchone the method obviously breaks down. Three samples of spearmint oil were examined by this method, by Labbé's method, and by the bisulphite process, with the following results:

	Labbé	Walther	NaHSO ₃
1	54.7 %	53.1 to 58.4 %	55 %
2	61.3 %	65.5 ,, 66.4 %	67.5 %
3	—	60.7 ,, 61.4 %	61.5 %

The Fighting Fife Pharmacists.

Apart from medical men, who are keeping up to the bitter end their opposition to the medical provisions of the National Insurance Bill, the only considerable section of chemists and druggists who remain dissatisfied with and opposed to these provisions are the chemists of Fifeshire. An article expounding their views was published in the Dundee "Courier" of October 30. Substantially it sets forth that the allotment for medical benefit is inadequate,

and that the ratepayers will have to pay the insufficiency. Assuming that 6s. or 8s. per head per annum will be allotted for medical benefit, and that the doctor will get three-fourths of this, the writer of the article says:

"Two shillings per head is the sum for which the chemist will be asked to supply medical requisites. Medical requisites, it must be remembered, include all the drugs of all kinds and all the surgical dressings which may be ordered by the doctor. This means that for every thousand men the contracting chemist is allowed 100l., and in return he has to supply them with everything required in the way of medicines and surgical appliances. The average sick-list, experience tells us, is considerably over 5 per cent., but, putting it at 5 per cent., this means that the pharmacist has to supply fifty permanent sick—all, be it observed, acute cases—for a sum that falls under 2l. per week. He cannot do it. . . . The medical benefits at present supplied by the chemist to the Friendly Societies are confined to drugs, and in the majority of cases to such drugs only as are found in the British Pharmacopoeia. They do not include food-medicines, plasters, surgical dressings, and surgical appliances, all of which must be provided under the Insurance Bill. . . . Chemists may be so united as to refuse contracts. In that case it will be open for the committees to start dispensaries and supply the medical requisites themselves. But since, as we are convinced, the contemplated contracts will not pay the regular practitioners, the public dispensaries will be carried on at a loss, which the ratepayer will have to make good. We do not believe, however, that, to begin with at least, these public dispensaries will be opened. It is far more likely that the chemists will make the experiment and contract. An epidemic coming early will demonstrate at once the impossibility of fulfilling the contracts except at a loss. Sooner or later this will be proved, and the chemists will drop their contracts."

The article closes with an appeal to the ratepayers as the persons who will be ultimately affected. There appears to be no question that these views are widely held by chemists in Scotland, where Clause 14, as amended, does not give the same satisfaction that it does in the South. The legislative difficulty is to get amendments which will satisfy the Fife folk without jeopardising the advantages that have already been secured, and which satisfy an overwhelming majority of chemists in Great Britain.

Chemists' Assistants' Strike.

Much printers' ink has been used during the past week in regard to a possible strike of chemists' assistants. The following is an example of the type of flimsied information offered in the lay Press:

"The trouble which I mentioned was imminent some short while ago in connection with the formation of the Chemists' Assistants' Union is now actively fermenting, and unless certain explicit grievances are remedied the resultant action of the Union will probably bring about a strike of no mean proportions. Since I last wrote those complaints, which were but of a vague and indefinite character, have now been properly scheduled, and last Friday a list of the prevalent discontents was drawn up and despatched to the employers. The employers have preserved a universal silence, but an extension of time has been agreed to, though the original interval for an answer has now terminated. Should the employers persist in their attitude, the Union are to call out the qualified men who assist in the stores. Of course, the efficacy of the strike depends upon the response that is made. The Union, which is of very recent formation, is inexperienced, and though the membership has exceeded expectation, it is always difficult to get professional men to join unions."

Inquiries elicited the fact that some of the large retail drug firms were ignorant of the ultimatum given to them; while Mr. H. C. Bedding, Secretary of the Chemists' Assistants' Reform Union, is much more moderate in his statements. He has despatched a circular-letter to big drug-store companies asking for co-operation in reducing the working hours among chemists' assistants and in eliminating cheap female labour at the drug-counter. He admits that the membership of the Union has not yet reached the five-hundred mark, and that the statements in the lay Press are the exaggerated ideas which emanate from journalists eager for "copy."

Some New Formulas.

The following are some of the new formulas that have been suggested for inclusion in the forthcoming edition of the "National Formulary" of the American Pharmaceutical Association. The committee is desirous of having them thoroughly tried by pharmacists, and invite comments and criticisms to be addressed to Professor C. Lewis Diehl, 932 Cherokee Road, Louisville, Ky.

ELIXIR AMYGDALAE COMPOSITUM.

Oil of bitter almond	...	...	0.5 c.c.
Vanillin	...	...	1.0 gm.
Stronger orange-flower water	...	...	150.0 c.c.
Alcohol	...	...	50.0 c.c.
Syrup	...	...	400.0 c.c.
Kieselguhr	...	...	10.0 gm.
Distilled water, to make	...	...	1,000.0 c.c.

Dissolve the oil of bitter almond and the vanillin in the alcohol, add the syrup, and then the stronger orange-flower water, then the distilled water in several portions, shaking the mixture thoroughly after each addition; then add the kieselguhr, mix and filter, returning the first portion of the filtrate, if necessary, until it runs through clear. Lastly, wash the filter with sufficient of a mixture of alcohol 1 volume and distilled water 19 volumes, until 1,000 c.c. of product is obtained.

ELIXIR GLYCYRRHIZAE AQUOSUM.

Fluid extract of glycyrrhiza	...	...	150 c.c.
Compound spirit of cardamom	...	...	5 c.c.
Stronger orange-flower water	...	...	200 c.c.
Glycerin	...	...	150 c.c.
Syrup	...	...	150 c.c.
Water, to make	...	...	1,000.0 c.c.

Mix and filter.

ELIXIR RUBRUM.

Cudbear	...	...	2 gm.
Aromatic elixir	...	...	1,000 c.c.

Add the cudbear to the aromatic elixir, in a suitable container, and allow the mixture to stand for six hours with occasional agitation, then filter.

ELIXIR TRIUM BROMIDORUM.

Ammonium bromide	...	...	80 gm.
Potassium bromide	...	...	80 gm.
Sodium bromide	...	...	80 gm.
Cudbear	...	...	2 gm.
Compound elixir of almond, to make	...	...	1,000 c.c.

Dissolve the bromides in sufficient compound elixir of almond, add the cudbear, and allow the mixture to macerate in a closely stoppered bottle for six hours, with occasional shaking. Finally filter.

ELIXIR FORMATUM.

Potassium formate	...	...	50 gm.
Sodium formate	...	...	50 gm.
Aromatic elixir, to make	...	...	1,000 c.c.

Dissolve the formates in the aromatic elixir and filter.

ELIXIR FORMATUM COMPOSITUM.

Monohydrated sodium carbonate	...	...	23 gm.
Magnesium carbonate	...	...	20 gm.
Strontium carbonate	...	...	25 gm.
Lithium carbonate	...	...	8 gm.
Quinine alkaloid	...	...	7.7 gm.
Formic acid	...	...	200 c.c.
Compound spirit of cardamom	...	...	10 c.c.
Acetic ether	...	...	2 c.c.
Alcohol	...	...	100 c.c.
Glycerin	...	...	300 c.c.
Purified tale	...	...	20 gm.
Distilled water, to make	...	...	1,000 c.c.

Add the formic acid to 300 c.c. of distilled water, and in this dissolve the carbonates, and then add the quinine; to this solution add the glycerin and then the alcohol previously mixed with the compound spirit of cardamom and the acetic ether, agitate thoroughly, and add sufficient distilled water to make the product measure 1,000 c.c. Then add the purified tale, mix and filter with sufficient mixture of alcohol 1 volume, distilled water 9 volumes, until 1,000 c.c. of finished preparation is obtained.

ELIXIR CARDAMOMI COMPOSITUM.

Compound spirit of cardamom	...	...	10 c.c.
Alcohol	...	...	50 c.c.
Syrup	...	...	400 c.c.
Kieselguhr	...	...	10 gm.
Distilled water, to make	...	...	1,000 c.c.

Mix the compound spirit of cardamom with the alcohol, add the syrup, and then the distilled water in several portions, shaking the mixture thoroughly after each addition; then add the kieselguhr, mix and filter, returning the first portion of the filtrate, if necessary, till it runs through clear. Lastly, wash the filter with sufficient of a mixture of alcohol 1 volume and distilled water 9 volumes, until 1,000 c.c. of product is obtained.

SPIRITUS CARDAMOMI COMPOSITUS.

Oil of cardamom	... ..	20.0 c.c.
Oil of orange	... ..	20.0 c.c.
Oil of cassia	... ..	2.0 c.c.
Oil of cloves	... ..	1.0 c.c.
Alcohol	... ..	1.0 c.c.
Oil of caraway	... ..	0.1 c.c.
Alcohol, to make	... ..	200.0 c.c.

Mix the oils with 140 c.c. of alcohol, finally adding a sufficient quantity of alcohol to make the spirit measure 200 c.c.

ELIXIR VANILLINI COMPOSITUM.

Compound spirit of vanillin	... ..	20 c.c.
Alcohol	... ..	80 c.c.
Glycerin	... ..	25 c.c.
Syrup	... ..	300 c.c.
Kieselguhr	... ..	10 gm.
Tincture of caramel	... ..	20 c.c.
Distilled water, to make	... ..	1,000 c.c.

Mix the compound spirit of vanillin with the alcohol, add the glycerin, and then the syrup and the distilled water in several portions, shaking the mixture thoroughly after each addition; then add the kieselguhr, mix and filter, returning the first portion of the filtrate, if necessary, till it runs through clear. Lastly, wash the filter with a mixture of alcohol 1 volume and distilled water 9 volumes, until 980 c.c. of product is obtained and add 20 c.c. of tincture of caramel.

SPIRITUS VANILLINI COMPOSITUS.

Vanillin	... ..	40 gm.
Oil of orange	... ..	10 c.c.
Oil of cardamom	... ..	2 c.c.
Oil of cassia	... ..	1 c.c.
Alcohol, to make	... ..	200 c.c.

Dissolve the vanillin and the essential oils in 150 c.c. of alcohol, and then add sufficient alcohol to obtain 200 c.c. of product. Store in tightly stoppered amber-coloured vials in a cool place protected from light.

ELIXIR AURANTII AMARI.

Oil of bitter orange	... ..	4 c.c.
Tincture of bitter-orange peel	... ..	20 c.c.
Alcohol	... ..	300 c.c.
Stronger orange-flower water	... ..	20 c.c.
Syrup	... ..	400 c.c.
Kieselguhr	... ..	10 gm.
Distilled water, to make	... ..	1,000 c.c.

Mix the oil of bitter orange and the tincture of bitter-orange peel with the alcohol, add the syrup and then the stronger orange-flower water, and then the distilled water in several portions, shaking the mixture thoroughly after each addition; then add the kieselguhr, mix and filter, returning the first portion of the filtrate, if necessary, till it comes through clear. Lastly, wash the filter with sufficient of a mixture of alcohol 3 volumes and distilled water 7 volumes, until 1,000 c.c. of product is obtained.

ELIXIR SODII SALICYLATES COMPOSITUM.

Sodium salicylate	... ..	80 gm.
Fluid extract of cimicifuga	... ..	32 c.c.
Fluid extract of gelsemium	... ..	15 c.c.
Potassium iodide	... ..	16 gm.
Purified tale	... ..	15 gm.
Aromatic elixir, to make	... ..	1,000 c.c.

Dissolve the sodium salicylate and potassium iodide in 800 c.c. of aromatic elixir, add the fluid extracts, and then sufficient aromatic elixir to make 1,000 c.c. Add the purified tale, mix and filter.

Compound elixir of sodium salicylate should be kept in amber-coloured bottles, protected from the light.

NEW BOOKS.

Bailey, G. H., and Bausor, H. W. *Senior Chemistry*. Cr. 8vo. Pp. 520. 4s. 6d. (Clive.)

Cavers, F. *Practical Botany*. Cr. 8vo. Pp. 424. 4s. 6d. (Clive.)

Chavasse, P. H. *Advice to a Wife*. 8th edit. Cr. 8vo. Pp. 262. 1s. net. (Cassell.)

UNIVERSITY OF MANCHESTER.—The students of the pharmaceutical department to the number of a dozen paid a visit on Monday, October 30, to the works and laboratories of Messrs. Evans Sons Lescher & Webb, Liverpool, the tour of the extensive premises occupying the whole of the afternoon. The operations and apparatus necessary in dealing with huge quantities of material proved absorbingly interesting. The enormous stills, where oils of cloves and of sandalwood were being distilled, were most impressive, since retailers usually handle these in such small quantities. The Major students took keen interest in the analytical laboratory, especially in the working of such instruments of precision as the polarimeter and refractometer. Tea was supplied by the firm before the return journey to Manchester, when Mr. Grier expressed the thanks of the party to the representatives of the firm for their courtesy and hospitality.

"Rexall."

A Chat with Mr. R. A. Robinson.

IN our issue of September 23 we were able to announce that the United Drug Co. of Boston, U.S.A., contemplate starting a branch business in the British Isles similar to that which they have established in Canada. We were able to give particulars regarding the business of the company, which were the personal observations of an English pharmacist on the spot, and last week we gave a report of the ninth annual convention of the shareholders of the company, which was held at Boston, and which was attended by Mr. E. Carpenter (Bristol), Mr. R. A. Robinson (London), Sir Thomas W. Robinson (Dublin), Mr. J. W. Sutherland (Glasgow), and Mr. E. Thompson (Manchester and Liverpool), who were the guests of the company. Since then we have had the opportunity of a chat with Mr. R. A. Robinson, who, with Mr. Sutherland, returned last week, the other members of the party having remained behind for a few days to visit personal friends.

Mr. Robinson informed us that when he first heard of the proposal of the company to come to this country he expressed himself in sympathy with anything which would make for the progress of pharmacy and draw the chemists of this country closer together, and to that extent he approved of the proposed move. His visit to America has convinced him that the United Drug Co. has been instrumental in breaking down the feeling of distrust among retail chemists in Canada and the United States, 4,000 of whom constitute the shareholders of the company. A feeling of trust was paramount in the Convention, and Mr. Robinson has never seen that feeling more strongly exhibited than it was among the chemists who attended the meeting and those whom he afterwards had the opportunity of visiting in their own stores in different parts of the country, as far west as Chicago, and eastwards to Providence, Rhode Island. It is the company and its methods, Mr. Robinson emphasised, which create this feeling of trust.

When Mr. Louis K. Liggett, the President of the company, was a travelling salesman visiting drug-stores ten years ago, he had plenty of opportunities of realising the absence of this feeling, and to remove it was one of the planks in his platform. Another was to eschew cutting, and no cutting takes place in the Rexall stores, full prices and good profits being maintained. It has happened occasionally that there has been a cut against the Rexall stores and Rexall has retaliated; but Mr. Robinson says that, if the company does open shops in this country, they will not be run on the lines of the cutting stores which are so familiar with us. He stated at the great dinner to the shareholders in the Arena at Boston that he could not say that the same style of business that is carried on by the company in Canada and the United States will suit for Great Britain and Ireland, and in the subsequent motor-trip through various States the party had full opportunity of seeing for themselves the nature of the retail drug-business that is carried on and the large profits that are made. They visited one retail shop where the proprietor makes 10,000l. a year net profit, and there are many in which 1,000l. a year and over is made. "That is not off drugs and medicines alone," said Mr. Robinson, "but from side-lines such as the soda-fountain, candies (i.e. chocolates and high-class sweets), cigars, stationery, and other goods, or 'merchandise' as they prefer to speak of goods. They are making a great point on the other side of merchandising in association with pharmacy. They get good prices—the candies, for instance, are 2s. a box, and



MR. L. K. LIGGETT.

so on—and it is a question which we shall have to consider, how far we may add these and other side-lines to the regular business of dispensing and selling medicines.”

Mr. Robinson went on to say that he has an open mind on the subject, but it is one of the things that will have to be considered by English chemists; and certainly the business or merchandising side of pharmacy is receiving greater attention in America than it is here, and it is in that direction that large profits are made. Referring to some criticism of the company by correspondents in the *C. & D.* of September 30, Mr. Robinson said there is a misapprehension. He went to Boston with an open mind as to the company and its methods, and found everything *bona fide*, Mr. Liggett and his colleagues in the management being gentlemen, and the factories, laboratories, and warehouses well-equipped and modern establishments. He had the opportunity, and used it, of inspecting the books of the company, right into the most private details, and was satisfied with the soundness of the concern. One morning when he was at the headquarters the orders that had come in from shareholders were totalled up to \$100,000. This is not alone in Rexall medicinal and toilet specialties, candies, and so on, but ordinary drug supplies as well. In short, Mr. Robinson confirms generally the statement which we were able to publish on September 23. He added that there is no doubt that the company will come to this country, but when has not been determined, nor has the nature of the business been settled. It is not, however, likely to be along Boots' lines, and it has not been decided to open retail shops, nor does Mr. Robinson know whether or not factories will be started here. “But they are coming; you may take my word for that,” said Mr. Robinson. “And are you to be a director?” asked our representative. “That also is one of the things which have not been determined,” replied Mr. Robinson.

Mr. Sutherland's “Impressions”

were obtained by our Glasgow Correspondent, who called upon him at the headquarters of Messrs. Frazer & Green, Ltd., Buchanan Street, Glasgow, of which he is managing director. He first dealt with American pharmacy, then spoke about the invitation to the party of five, the cordial manner in which they were received, and in the course of the conversation corroborated by his remarks the statements in our article of September 23 as to the objects of the company, its equipment and organisation, and the enthusiasm of the members. Mr. Sutherland incidentally remarked:

“Mr. Liggett is a man of extraordinary ability, and his personality is evident throughout the various departments. Each department is equipped with all the up-to-date methods of doing business, and is under the control of a principal who

has been selected by Mr. Liggett for his ability and energy; and apparently the whole organisation works with wonderful smoothness for so large an establishment. We visited drug-stores in New York, Providence, Boston, Pittsfield, Worcester, Salem, Detroit, Toronto, Niagara, and Chicago. In each of these towns we were received with the utmost cordiality by the various druggists we called upon. They were able to show us that considerable business is being done in American drug-shops. The American druggist is a merchant as well as a druggist, and he merchandises large quantities of candy, stationery, fountain-pens, cigars, as well as the soda-fountain, in addition to the usual toilet articles and surgical goods usually sold in Great Britain. At the same time each section of the business is departmentised, so that the principal knows exactly what each department is turning over, and apparently if the department is not successful it is quickly rooted out for something else that pays better. The dispensing departments in some establishments were very well equipped, and were placed at the rear of the building, away from the noise and racket connected with a busy pharmacy. In some other establishments the dispensing appeared to be the least important department of the store.”

“What about the prices charged for drugs and proprietary articles? How do they compare with British prices?” asked our representative; and to this Mr. Sutherland replied: “The prices obtained for nearly all drugs and proprietary goods, for toilet and other preparations are considerably higher than at home, and 5c. to 10c. represent the smallest sales made by the American druggists. The druggist there, too, sells postage-stamps, picture and other postcards, and almost anything that leads to business or brings a buyer into his store. In this respect he is quite different from the British druggist, and he is making money to an extent undreamt of in this country. A point worth noting,” Mr. Sutherland added, “is that in America the prescriptions are retained and posted in their books, and if a customer wishes a copy he can have it on making application.”

Mr. Sutherland, like Mr. Robinson, emphasised the fact that with the exception of the recommendation of the United Drug Co. that a British company be formed, the representatives of pharmacy from Great Britain were not committed to any proposals nor asked to give any opinion regarding the prospects of drug business on American lines being run in this country.

Mr. Thompson and other members of the party returned on Wednesday.

There are few drug-trade events of recent years which have caused such widespread interest throughout the United Kingdom as this one, which would not have been known until now, probably, had not THE CHEMIST AND DRUGGIST notified the departure of the party in the week that they sailed. At that time the existence of the United Drug Co. was almost unknown on this side, but the particulars given in the *C. & D.* have informed the trade fully. We append a picture of one of the events of the Convention.



Rexall Bonbon Party at the Lynnway Club, Revere Beach, Mass.

CHEMISTS' ASSOCIATIONS' MEETINGS



Association Presidents.

THE Glamorgan Valleys Chemists' Association is one of the outcomes of the National Insurance Bill and the need for union among chemists to secure better recognition under it. Mr. Daniel Arnott, Ph.C., J.P., who has been called to fill the presidential chair, served his apprenticeship to the drug-trade in South Wales, after which he came to London and studied under Dr. John Muter at the School of Pharmacy in Kennington Road and passed the Minor examination in April 1883. He continued his studies and passed the Major examination in July 1884. For some time thereafter he acted as demonstrator in practical chemistry at the old Westminster College of Pharmacy, then was



MR. D. ARNOTT.

for three years an assistant with Messrs. T. Jones & Co., Putney, after which he went to Brighton to a position on Messrs. Savory & Moore's staff there. He commenced business on his own account at Pontypridd in 1887, and made such excellent progress that on two occasions he has had to remove into larger premises, and at present is at 35A Taff Street, his pharmacy being situated near the far-famed one-arch bridge. Mr. Arnott is the oldest-established chemist in Pontypridd. He has taken an active part in municipal affairs, and for nearly nine years has been a member of the Pontypridd Urban District Council, of which body he is now Chairman. He is also an overseer of the parish, so that in taking up the presidency of one of the newest chemists' associations he brings to bear upon it ripe experience as an administrator.

Brief Records.

Aberdeen Pharmaceutical Association.—Mr. Rutherford Hill met the members in private conference on Wednesday, October 25. There was a large attendance, presided over by Mr. David Anderson (President). Mr. Hill's object was to speak about the present position of the *Insurance Bill* and to urge the necessity for thorough local organisation of pharmacists. A resolution in sympathy with what is being done for chemists was proposed by Mr. W. F. Hay, and seconded by Mr. Chas. Simpson, and unanimously agreed to.

Cheltenham, Gloucester, and District Pharmacists Association.—A meeting was held at the Plough Hotel, Cheltenham, on October 26, Mr. J. A. Thomas (President) in the chair. Messrs. W. Barron, F. T. Palmer, A. Lee Hall, A. Hill, A. C. Saxby, H. B. Lloyd, T. H. Hawley, C. H. James, T. T. Dolman, and W. H. Hill (Hon. Secretary) were also present. It was unanimously resolved to nominate Mr. J. A. Thomas for reappointment as Divisional Secretary for the ensuing year. Several questions were brought forward for impromptu discussion and created much interest.

Brighton Association of Pharmacy.—A meeting was held at the Hôtel Métropole on October 26. There were present Mr. W. H. Gibson (President) and Messrs. C. S. Ashton, C. Beckwith, E. Beckwith, C. A. Blamey, A. H. Cupit, F. J. Flatman, A. Hall, E. A. Jones, J. Padwick, K. J. Pad-

wick, A. Plowright, T. Read, G. B. Savage, C. G. Yates, and A. J. Franklin (Hon. Secretary). The Local Associations' officer of the Pharmaceutical Society attended, and explained the federation proposals of the Local Associations' Committee, and after discussion a unanimous vote was accorded in favour of the federation scheme.

National Union of Assistant Pharmacists.—A meeting of the Bristol branch was held at the Dolphin Café on October 26. Present: Messrs. Guthrie (who presided), Sharp, Brown, Bransom, Walker, and Doddesley. The Secretary submitted answers he had received from local M.P.s re the provision of qualified dispensers under the Insurance Scheme. He also submitted copies of two circulars issued by the Glasgow Branch setting forth the advantages of joining the N.U.A.P. It was decided that during the coming winter a series of papers should be submitted and discussed by the members. Mr. Sharp undertook the first, on "Pharmacy Law in its Relation to the Assistant." An informal discussion followed.

Chemists' Assistants' Association.—There was a good attendance at the meeting held at 73 Newman Street, London, W., on October 26, to hear Mr. F. A. Hocking, B.Sc., pharmacist to the London Hospital, tell of "A Hospital Pharmacist and his Duties." Mr. Hocking first dealt with the mode of entry to the dispensary of a large hospital, giving particulars as to requisite qualifications and also rates of remuneration. Mr. Hocking objected to the underselling by women of their services in the dispensary. The duties in the dispensary were treated under three heads—pharmaceutical, purchase of drugs and dressings, and the maintenance and distribution of proper stocks. The lecturer pointed out that it is somewhat remarkable that each hospital has its own collection of formulae, and stated that it surely should be possible to compile one Pharmacopœia for all, or at least one applicable to metropolitan institutions. The large quantities of drugs and dressings used in hospital practice were mentioned; these included for 1910 at the London Hospital 16,300 gals. of lotions, 10,500 gals. of mixtures, 63 cwt. of ointments, 2,000,000 tablets, 6½ tons of lint, and 7 tons of absorbent wool. The method of tendering for supplies was told in detail. The lecture evoked much interest among the company, various questions being put and replied to. A cordial vote of thanks was accorded to the lecturer for his paper.

Plymouth, Devonport, and Stonehouse Association of Pharmacists.—The annual general meeting was held on October 26 at 7 Whimble Street, Plymouth, the President (Mr. F. Augustus Spear) in the chair. Those present included Messrs. W. Condy U'Ren (Vice-President), Edward Turney (Treasurer), Frank J. Barge (Hon. Secretary), J. D. Turney, R. F. Roper, F. W. Hunt, S. A. Perkins, F. Maitland, J. P., J. Barge, F. A. Goodwin, F. W. Broom, A. D. Breeze, A. Barber, T. Harvey, and Cyril U'Ren. The Secretary presented the annual report, which was adopted. The Treasurer presented the financial statement for the year, which showed a balance in hand of 5*l.* 0*s.* 11*d.* This was approved. The following were nominated as Divisional Secretaries of the Pharmaceutical Society: Mr. E. G. Turney for Plymouth, and Mr. J. E. Knight for Devonport and Stonehouse. Mr. F. W. Broom and Mr. A. D. Breeze were elected *Auditors*, and the following were elected to form the *Executive Committee* for the coming year: Messrs. F. J. Barge, W. Barrett, H. D. Davey, J. W. Jones, J. E. Knight, F. Maitland, H. M. Marcollyn, C. J. Park, S. A. Perkins, F. A. Roper, R. F. Roper, F. A. Spear, J. D. Turney, E. G. Turney, and W. Condy U'Ren. The retiring officers were thanked. A discussion then took place on the prospects of pharmacy under the *National Insurance Bill*. The meeting agreed that until

the Bill becomes law great watchfulness is necessary, not only to safeguard amendments already made, but to obtain amendments upon that portion of the Bill still unconsidered, especially with regard to those clauses dealing with the appointments of advisory and local Health Committees.

Cambridge Pharmaceutical Association.—The annual meeting was held on October 24 at Rigg's University Rooms, those attending included the following: Mr. E. H. Church (President), Mr. E. S. Peek, M.A., Mr. H. F. Cook, J.P., Mr. J. Lincoln (Ely), Mr. J. Evans (Treasurer), Messrs. B. S. Campkin, Beall, jun., A. A. Deck, Parsons, Rutherford, Williams, Wood, Titterton, and T. J. Mallett (Hon. Secretary). The Hon. Secretary's report reviewed the business accomplished during the past year, and concluded by stating that the Association is in a flourishing condition generally, new members from country districts voluntarily joining the Association. The balance-sheet submitted by the Treasurer, Mr. J. Evans, showed a good credit balance. Both were adopted. Mr. E. H. Church referred to the library which is in course of formation, and said the next step is to make arrangements for a permanent home where the books could be stored and the meetings held. He could see no difficulty in the way of establishing a useful local pharmaceutical library, and by way of a start he presented to the Association a suitable book-case. His desire was that the meetings should be of an educational character, and he considered it possible for them to be entirely managed and controlled by the juniors themselves. Mr. H. F. Cook and Mr. T. J. Mallett reported as delegates to the British Pharmaceutical Conference. The annual vote for the Benevolent Fund was agreed to, and was followed by a report and discussion on the National Insurance Bill. The following were elected officers for the coming year: *President*, Mr. E. H. Church; *Vice-Presidents*, Mr. Alderman A. S. Campkin, Mr. J. Lincoln (Ely), Mr. H. F. Cook, J.P., and Mr. H. Flanders; *Committee*, Messrs. E. S. Peek, M.A., B. S. Campkin, A. A. Deck, Wood, Parson, and Beall; *Treasurer*, Mr. J. Evans; *Hon. Secretary*, Mr. T. J. Mallett.

Northampton Chemists' Association.—The first meeting of the winter session was held at the Black Boy Hotel on October 24. Mr. W. Gatehouse presided, and there were also present Mr. W. McKinnell, Mr. L. North, Mr. Rolfe, Mr. Geo. Ingle, Mr. Dennis, and Mr. F. Cowdery (Hon. Secretary). Mr. D. McKinnell was re-nominated as Divisional Secretary for the Pharmaceutical Society. Mr. Gatehouse introduced the subject of *State Insurance*, and said that he thought chemists would be better off if the Bill passed than if it did not. Mr. North was of the same opinion, but considered that the doctors had the fate of the Bill entirely in their own hands. If the doctors gain the day, and only people earning 100*l.* a year or less obtained free medicine, then the chemists would benefit, but not if people earning up to 160*l.* were insured as was originally proposed. Mr. Dennis said that while the Bill might do chemists good, it certainly could do them no harm. Doctors did a large amount of dispensing, and if the Bill diverted people from the doctor's dispensary to the chemist it would materially benefit chemists generally. Members of Parliament had practically said that doctors' dispensing is not good enough for the working classes, and, as a consequence, people better off might conclude that it is not good enough for them. This admission in Parliament is a fine advertisement for chemists as a class, and in the event of the present Bill falling may help to frame some future measure. Mr. Rolfe said that the benefit to chemists from the Bill depended on how the prices would be fixed for medicine, and how they would compare with doctors' charges. As regards the chemists' contribution of 3*l.* a week for employes, that would be a very small matter. Mr. North essayed the opinion that one of the objects of the Bill seems to be to stop self-prescribing and the sale of nostrums. If the Bill passes chemists will all be civil servants and State-paid officials. Letters promising consideration of the chemists' claims had been received from Mr. Chiozza Money, M.P., Mr. H. Manfield, M.P., Mr. Leonard Brassey, M.P., Mr. H. B. Lees Smith, M.P., the Hon. E. A. FitzRoy, M.P., and Mr. C. A. McCurdy, M.P.

Dundee Chemists.—On Thursday, October 26, at 9.30 p.m., a meeting was held in Mather's Hotel, Dundee. The meeting was convened by the Dundee and District Pharmacists' Association "by request of Mr. J. Rutherford Hill." There were present Messrs. John Anderson, John Anderson, jun., Wm. Cummings, G. M. Davie, J. L. Doig, Wm. Doig, James Duff, J. P. Ferrier, Henry Geake, John Gray, John Hodge, G. J. Lindsay, Lawrence Michie, James R. Milne, Wm. S. Moir, T. S. Peebles, W. C. Ramsay, J. W. Robertson, R. G. Strachan, Wm. Sime, C. Stephen, J. H. Thomson, and Wm. Walker. On the motion of Mr. John Gray (President of the Forfarshire Chemists' Association), Mr. C. Stephen (President of the D. and D.P.A.) took the chair.

The first business was the nominating of two local members to act as Divisional Secretaries of the Pharmaceutical Society in room of the late Mr. Charles Kerr and Mr. Ebenezer Fleming (Broughty Ferry), who had resigned. The Chairman in a few words referred to the great loss local pharmacy had sustained by the death of Mr. Kerr, whom he characterised as a man of unwearied industry, inflexible constancy, clear understanding, and untainted integrity. Mr. Wm. Doig proposed that they record in the minutes an appreciation of Mr. Kerr, and send a letter of sympathy to the family. After Mr. J. H. Thomson, Mr. John Anderson, Mr. John Gray, and Mr. Hill had also spoken in complimentary terms of the late ex-President of the Forfarshire Chemists' Association, the motion was agreed to. Mr. T. S. Peebles nominated Mr. Charles Stephen as Divisional Secretary for Dundee, and Mr. John Gray proposed Mr. G. Forbes Johnstone for Broughty Ferry. The motions were agreed to. Mr. Hill, speaking on the National Insurance Bill, complimented the local representatives on the success which attended their visit to London to interview the Scottish members of Parliament, and proceeded to explain the present position of matters as affecting chemists. He spoke hopefully of the outlook for pharmacy, and said that for this they were much indebted to Mr. Glyn-Jones, M.P. After a few questions had been put to Mr. Hill, Mr. J. P. Ferrier proposed that the thanks of the meeting be conveyed to Mr. Glyn-Jones in acknowledgment of his services. The usual votes of thanks brought the meeting to a close shortly after eleven o'clock.

The Coming of Uglooh.

The brilliant Summer passeth by,
The golden Autumn lingers late,
The Sun dies red in leaden sky,
Rude Winter knocketh at the gate,
But we speed out, on pleasure bent,
For Uglooh cometh, eloquent.

When Rebels strike the passive lyre,
And chaunt rude songs their Lords to mock,
When Brodhedds set the moors afire,
And Preston flaunteth Us, the shock
Is deadened, for their ire is spent
When Uglooh cometh, eloquent.

The jocund chorus soareth high;
Then winking wine and soothing weed,
Till festive Brothers' full-fed sigh
Hath paved the path to give good heed
To winged words, with humour blent,
When Uglooh riseth, eloquent.

Social Gatherings.

Hewlett's Social.—The staff of Messrs. C. J. Hewlett & Son, Ltd., held their fifteenth social evening at the Talbot Hotel, London Wall, London, E.C., on October 23, the chair being taken by Mr. E. J. Millard, F.C.S., who was supported by Mr. Vivian C. Hewlett, in the vice-chair, and upwards of sixty members. An excellent dinner was served, and after the loyal toasts that of "Success to C. J. Hewlett & Son, Ltd." was given by Mr. W. Richards. The Chairman, in replying, read messages of good wishes from Mr. John C. Hewlett, F.C.S., and Mr. Allman, directors, unable to be present. Referring to the National Insurance Bill, the Chairman mentioned that the staff would certainly not gain by it, as the firm had always paid wages in full during illness. The Curtain Road additional premises placed the company in a better position to meet any business demands. Mr. Vivian Hewlett, who also replied, referred to the Football Club, which is entering on its second season. A highly successful smoking-concert followed, pianoforte recitals being given by Mr. Hull, humorous songs by Mr. Willie Webb and Mr. Will Cragg, songs by Mr. A. Stanton, Mr. J. C. Chance, and Mr. Pile, and songs and Hebrew patter by Messrs. Watt and Scott. A vote of thanks to the General Secretary, Mr. Harry Gillard, and the singing of "Auld Lang Syne" terminated the proceedings.

East Aberdeenshire Pharmacists Association.—The annual meeting and dinner were held in the Station Hotel, Maud, on Thursday, October 19. There was a representative attendance, Mr. Adam Findlay (Peterhead), the President, occupying the chair, Mr. John H. Low (Fraserburgh) being croupier. Among those present were Mr. J. Rutherford Hill (Edinburgh) and Mr. J. F. Tocher (Peterhead). Apologies for absence were received from Messrs. G. and W. J. McGregor (Ellon), C. and G. Thomson (New Deer), G. Matthew (New Pitligo), G. M. Cruickshank (Turrieff), W. Bremner (Cruden Bay), John Milne (Aberdeen), W. Turner

(Peterhead), F. C. McPherson (Newburgh), John Massie (Old Meldrum), W. W. Hunter (Fraserburgh), W. Watt (Turriff), A. M. Lee (Strichen), W. W. Gardiner (Fraserburgh), and Wm. Lee (Rosehearty). After a few introductory remarks by the Chairman, and the loyal and patriotic toasts being duly honoured, the President called upon Mr. J. Rutherford Hill to address the meeting on the latest phases of the Insurance Bill as affecting pharmacy. After a most lucid and interesting address, a discussion took place, Messrs. Gall (Fraserburgh), Collie (Peterhead), Jas. Christie (Old Meldrum), J. D. Christie (Peterhead), Alex. Milne (Maud), J. Walker (Ellon), J. H. Low (Fraserburgh), J. F. Tocher, and the President taking part. The following resolution, proposed by Mr. Tocher, was unanimously approved: "That this annual meeting of the East Aberdeenshire Pharmacists' Association cordially thanks Mr. J. Rutherford Hill for his clear and able statement bearing on the pharmacists' position as indicated in the Committee stage of the Insurance Bill. The members unanimously agree to support the policy of the Council of the Pharmaceutical Society, and rely on the ability of the Council's Parliamentary representative, Mr. Glyn-Jones, to take such action as he thinks fit in the House of Commons to conserve our interests." Mr. James Christie (Old Meldrum) was unanimously elected President for the ensuing year, and Mr. Alex. Milne (Maud) re-elected Secretary and Treasurer. A vote of thanks, on the motion of Mr. Tocher, was cordially passed to Mr. Findlay for his services as President during the past year.

Institute of Chemistry Dinner.—The first annual dinner of the Institute of Chemistry attracted a distinguished gathering at the Whitehall Rooms, Hôtel Métropole, London, W.C., on October 27. Sir William Tilden presided in the unavoidable absence, due to illness, of the President (Dr. G. T. Beilby). Among the company of nearly 200 guests were Mr. C. B. Allen, President of the Pharmaceutical Society of Great Britain; Lord Justice Buckley; Mr. A. Chaston Chapman, President of the Institute of Brewing; Dr. J. J. Dobbie, F.R.S., Principal of the Government Laboratories; Professor P. F. Frankland, President of the Chemical Society; Sir A. Geikie, President of the Royal Society; Sir A. Keogh, Rector, Imperial College of Science and Technology; Dr. A. W. J. MacFadden, L.G.B. Inspector of Foods; Dr. R. Messel, President of the Society of Chemical Industry; Sir A. Mond; Colonel D. Prain, Director, Kew Gardens; Professor H. E. Armstrong, Mr. Robert Mond, Mr. R. A. Robinson, Mr. A. Siemens, and Lord Justice Fletcher Moulton. Among the Associates and Fellows who attended were Dr. Frank Clowes, chief chemist to L.C.C.; Sir Edward Thorpe, Sir W. Ramsay, Sir Alexander Pedler, Mr. Otto Hehner, Dr. F. L. Teed, Mr. Bertram Blount, Professor Raphael Meldola, Mr. A. Gordon Salamon, Mr. David Howard, Mr. Edward Bevan, Professor Herbert Jackson, Professor Arthur Smithells, Mr. J. H. Costa, chief assistant chemist, London County Council, Dr. Mollwo Perkin, Dr. Gowland Hopkins, Mr. S. L. Archbutt, and Professor W. J. Pope. Professor F. F. Frankland, gave the toast of "The Public Services," to which Lord Justice Buckley replied. Lord Justice Fletcher Moulton, in toasting "The Institute of Chemistry," said the chemist had chosen that which was near to human life. He chose that which was molecular. He knew that the Cullinan diamond and the stick of carbon differed only by the arrangement of molecules. The Chairman, in his reply, stated that the work of the Institute is generally recognised. Among the appointments of public analyst 96 per cent. are held by members of the Institute. The other toasts included "Pure and Applied Science," given by Sir William Ramsay, and acknowledged by Sir Archibald Geikie and Mr. Alexander Siemens.

WESTERN PHARMACISTS' ASSOCIATION.—The annual dinner will be held in the Alexandra Room, Restaurant Frascati, Oxford Street, London, W., on November 15. Tickets (7s. 6d. each) from Mr. A. Latreille, 48 Baker Street, W.

SALFORD PHARMACISTS' ASSOCIATION.—Annual dinner at the Cattle Market Hotel, Cross Lane, on November 15, at 6.45 P.M. Tickets (4s. each) from Mr. C. B. Brown, Ph.C., Victoria Bridge, Manchester, or any member of the committee.

CHEMISTS' BALL.—Mr. Alan Francis, 22 to 30 Graham Street, City Road, London, N., the Hon. Secretary of the Chemists' Ball, which will be held at the Hôtel Métropole on January 17, 1912, intimates that he is desirous of receiving as soon as possible the names of gentlemen willing to act as stewards.

INSTITUTE OF OPHTHALMIC OPTICIANS.—Dr. H. G. Critchley will give a lantern-lecture on "The Fundus of the Eye in Health and Disease" at the Cannon Street Hotel, London, E.C., on November 18. Tickets may be obtained from Mr. J. Harcombe Cuff, Hon. Secretary, 25 Friern Barnet Road, London, N.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.

Council-meeting.

THE monthly meeting was held at 16 Bloomsbury Square, London, W.C., on November 1. The President referred to the death of Mr. Charles Kerr (Dundee) and Alderman Robert Gibson (Manchester), and several of the councillors added their testimony as the result of long acquaintance with one or the other. Special contributions were received for the Benevolent Fund from the Junior Pharmacy Ball (ten guineas) and the Pharmacy Club (five guineas). Mr. Glyn-Jones, the Parliamentary Secretary, has assured the General Purposes Committee that nothing detrimental has happened to Clauses 13 and 14 of the National Insurance Bill since Parliament has re-assembled. The Secretary of the International Federation of Pharmaceutical Societies has invited the Society to joint organisation and to state the amount it is prepared to contribute towards the expenses. The matter is to be considered by the Library Committee, to whom Mr. White will submit next month an account of the proceedings at La Hague. The Boards of Examiners were appointed for London and Edinburgh; the latter was in accord with the nominations of the North British Executive, and in the case of London Messrs. R. R. Bennett, P. H. Marsden, R. W. Phillips, and F. U. Stamp replaced Messrs. Fritsch, Gamble, Tickle, and Wyatt. A misunderstanding arose between the Scottish members and the rest of the Council regarding the resolutions of the Fife-shire Pharmaceutical Association on the National Insurance Bill. These resolutions do not seem to have been received as promptly as the senders desired, and were therefore not before the Council in October. Mr. Neathercoat raised a question as to the character of the official report of the pharmaceutical deputation to the Chancellor of the Exchequer. Mr. Young's speech was stated to have been inadequately condensed, but Mr. Young waived any objections so long as the Council "did not think him such an ass as he appeared from the report." The final matter before the Council was enabling by-laws regarding reciprocity with the Colonies. The basis of the reciprocal agreement which it is proposed to make has been arrived at after consultation with representatives of Colonial pharmacy boards. The draft of this agreement is to be submitted through the Colonial Office for observations by the various pharmacy boards concerned. The by-laws were read for the first time.

THE councillors present were Mr. C. B. Allen (President), Mr. W. L. Currie (Vice-President), Mr. W. H. Gibson (Treasurer), and Messrs. F. E. Bilson, A. S. Campkin, W. G. Cross, J. H. Cuff, F. J. Gibson, R. L. Gifford, D. Gilmour, A. Hagon, J. Harrison, E. T. Neathercoat, G. T. W. Newsholme, F. A. Rogers, P. F. Rowsell, C. Symes, R. C. Walslaw, E. White, and J. R. Young.

DEATHS.

The minutes of the previous meeting having been read and confirmed,

THE PRESIDENT referred to the death of Mr. Charles Kerr, of Dundee. He said Mr. Kerr was a very excellent member of the Society for a number of years, a member of the Executive of the North British Branch, and a divisional officer of the Society. His genial temperament made him much liked by everyone with whom he came in contact, and his circle of friends was large by reason of the fact that he was a constant visitor to the British Pharmaceutical Conference. The President then spoke of the sudden death of Alderman Robert Gibson, of Manchester.

Mr. Gibson took considerable interest in pharmaceutical affairs and was always ready to help the Society when necessary. Mr. Harry Kemp represented the Society at the funeral.

The VICE-PRESIDENT said he had known Mr. Kerr for twenty-five years and could corroborate what the President had said regarding his happy and genial disposition which made him loved by all with whom he came in contact. Mr. Kerr was for twenty-two years a member of the Executive of the North British Branch and was Vice-chairman for three or four years. Mr. Kerr was a particular friend of the youth of the trade and took great interest in educational matters. At social and festive gatherings he was much in request owing to his happy disposition. He was one of the two original members of the Glasgow Chemists' Association, and his death severs a link with the past generation, which is always a sad event.

Mr. GILMOUR said that at the last meeting of the North British Executive it was very touching to see the empty chair which Mr. Kerr had for so long occupied. Mr. Kerr's interest in pharmacy was not measured by its brilliancy, but by the conscientious manner in which he discharged his duty. He had a great regard for the British Pharmaceutical Conference, and had a large album of photographs of visitors to the Conference which he liked to show to anyone interested.

Mr. YOUNG spoke of Alderman Gibson as having known him well for many years. He was a man of an extraordinarily active temperament, a shrewd and quick business-man. The fact that he was at one time Lord Mayor of Manchester is sufficient testimony as to his capacity. His death was startlingly sudden, but was probably an ideal one for an active man who had arrived at a ripe old age.

Mr. HARRISON said he knew Alderman Gibson at a time when he carried on a retail business. He was very kind-hearted and always ready to help those in need of help. He (Mr. Harrison) had also met him in public life, and on account of his activity, Mr. Harrison added that he could not conceive a method of departure from this sublunary sphere more in harmony with Mr. Gibson's own wishes than that it should be suddenly while at his post.

Mr. GIFFORD said that Alderman Gibson was always proud of being a pharmaceutical chemist and invariably ready to encourage young men.

ELECTIONS AND RESTORATIONS.

Five persons were then elected members and sixteen restored to their former position in the Society. Nine student associates were elected, and seven persons having paid a guinea fee had their names restored to the Register of Chemists and Druggists.

FINANCE.

The TREASURER then presented the report of the Finance Committee, the following being an abstract of the report :

General Fund Receipts.

Penalties and costs	£149	7	6
Subscriptions	53	11	0
"Journal" and publications	572	18	0
School-fees	1,179	15	0
Registration-fees	128	2	0
Dividend on Water Board stock	8	9	6
Restoration-fees	3	3	0
	£2,095	6	0

After making the payments authorised by the Council in October, there remained a balance of 1,851*l.* 3*s.* 5*d.*, from which the following amounts were recommended for payment :

"Journal" and publications	£646	8	5
Stationery, etc.	26	5	2
Current expenses	350	0	0
Salaries, etc.	321	6	8
School and examinations	495	7	7
Law-charges	51	12	9
House	221	11	5
Library	1	8	6
	£2,094	0	6

The balances on the Benevolent Fund were shown as follows :

Current account	£730	5	9
Donation account	74	5	1
Orphan Fund	101	5	8

The TREASURER, in moving the adoption of the report, said the receipts were a little less this year than last, while the payments amounted to 800*l.* more. This was, however, only a coincidence which is bound to happen from time to time. The balance on the Benevolent Fund exceeded by 220*l.* what it was at the corresponding time last year. Special contributions had been received from the Junior Pharmacy Ball (ten guineas) and the Pharmacy Club (five guineas).

The report was adopted.

BENEVOLENT FUND.

The report of the Benevolent Fund Committee was taken in committee, after which the CHAIRMAN (Mr. F. J. Gibson) moved its adoption. Grants were recommended amounting to 97*l.* 10*s.*, and a case was mentioned where one of the persons who signed the application form offered to pay 5*s.* a week towards the Relief Fund.

The report was adopted.

LIBRARY COMMITTEE.

The report of the Library, Museum, School, and House Committee was presented by Mr. WHITE. This dealt with the condition of the Society's libraries and the school apparatus. An account of 35*l.* 13*s.* for house-repairs was approved of. The Women Pharmacists' Association received permission to meet in the lecture theatre on November 20. An invitation to the International Congress of Applied Chemistry was replied to tentatively.

Mr. WHITE, in moving the adoption of the report, said that some member of the Society might be going to the Congress and could be appointed to represent the Society.

The report was adopted.

APPRENTICES REGISTERED.

The REGISTRAR presented his monthly report, which stated that he had placed on the register of apprentices or students forty-eight names.

PARLIAMENTARY AND GENERAL PURPOSES COMMITTEE.

This committee reported that it had considered an advertisement of an objectionable nature which had been issued by a member of the Society. The member had, in consequence of representations that had been made to him, consented to modify the advertisement. Mr. Glyn-Jones attended the committee-meeting and replied to questions regarding the effect of Clauses 13 and 14 of the National Insurance Bill. A list of Divisional Secretaries for England and Wales and Scotland was approved of, and an expression of indebtedness was added to these officers for past services.

EXAMINERS APPOINTED.

Another part of the report was from a sub-committee which considered the question of the appointment of examiners for the ensuing year. The retiring members of the English Board are Messrs. Fritsch, Gamble, Tickle, and Wyatt. The sub-committee recommended the appointment of the following to form the new Board :

R. R. Bennett,	H. P. Marsden,
E. H. Farr,	E. S. Peck,
H. Finmore,	R. W. Phillips,
W. F. Gulliver,	F. U. Stamp,
E. F. Harrison,	R. Wright.
H. Jackson,	

It was also recommended that Mr. F. W. Gamble be appointed to assist the Board when required. These and the nominations of the North British Executive for the Board of Examiners in Scotland (*C. & D.*, October 28, index folio 643) were embodied in a resolution which was adopted.

The PRESIDENT, in moving this resolution and the adoption of the report, said that Mr. Glyn-Jones stated to the committee that nothing has happened to interfere with Clauses 13 and 14. He (Mr. Glyn-Jones) is watchful of everything that is passing and fully alive to the situation.

The report was adopted, and another resolution passed fixing the dates of the Minor and Major examinations during 1912.

INTERNATIONAL FEDERATION.

A communication was read from the International Federation of Pharmaceutical Societies enclosing a report of the inaugural meeting at La Hague and inviting the Pharmaceutical Society to join the Federation as from January 1, 1912. Information was also requested as to the number of members, the number and names of the delegates it is proposed to send, and the amount which the Society is prepared to contribute towards the expenses of the Federation.

Mr. WHITE, who represented the Society at the meeting referred to, said the Federation was a result of the International Congress of Pharmacy which took place last year in Brussels. He suggested that the letter be referred to the Library Committee, who would report whether the Society should take any further steps in the matter. He would prepare a digest of the transactions at the inaugural meeting for the guidance of the committee.

This was agreed to.

CORRESPONDENCE.

An invitation was received to send a delegate to the Jubilee dinner of the Austrian Pharmaceutical Society next week. The PRESIDENT said it would not be feasible to send a delegate, but he proposed that a congratulatory letter be sent to the Society. This was agreed to.

The next item on the agenda read :

From the Executive of the Society's North British Branch reporting the proceedings of the Executive meeting on October 20.

Mr. GILMOUR inquired why this was placed on the minutes.

The SECRETARY said the report is sent regularly to the Council, and

The PRESIDENT said it is only courteous to acknowledge it. It contained, moreover, two important items: the co-option of a member of the Executive, and nominations for the Board of Examiners in Scotland.

The next item was regarding the resolution of the Fifeshire Pharmaceutical Association on the dangers of Clause 14 (3) of the National Insurance Bill (*C. & D.*, October 7, index folio 552).

The PRESIDENT said Mr. Glyn-Jones referred to this when he reported to the Parliamentary and General Purposes Committee.

The VICE-PRESIDENT inquired why the resolution was not brought before the October meeting. It was prepared under pressure in Edinburgh, posted on the Monday night, and should have reached London by the second post on the Tuesday in plenty of time for the Council-meeting. The text of the resolution appeared in the trade-journals, but not in the Society's organ.

The PRESIDENT explained that the resolution did not reach the office in time to be placed before the October Council.

Mr. GILMOUR said it is things like this that cause a great deal of friction. Parliament is at the moment in the heart of the very danger referred to in the resolution.

The PRESIDENT said the letter was dealt with by Mr. Glyn-Jones as soon as it arrived.

Mr. NEWSHOLME, observing that the Fifeshire meeting was held on September 27, thought the delay must have occurred at the other end.

Mr. GILMOUR said that the drafting of the resolution had to be finally settled by Mr. Storar before it was sent to Edinburgh. There was plenty of time for the resolution to have reached the Council. Is it not possible to say when the letter arrived?

Mr. HARRISON : "Is it not possible to accept the assurance of your colleagues that the letter arrived too late for the October meeting and that it was dealt with at once by Mr. Glyn-Jones?"

Mr. ROWSELL thought the matter a storm in a teacup.

The Colonial Office forwarded a copy of the New South Wales Act to amend the Pharmacy Act of 1897. The SECRETARY explained that this Act enabled the Pharmacy Board to impose a Preliminary examination in accord with modern educational requirements.

The Lancaster Chemists' Association conveyed a resolution regarding the use of "Poison" in place of "Poisonous" for poisons referred to in Section 5 of the Poisons and Pharmacy Act, 1908. Mr. Woolcock, who is visiting the town, was entrusted with the task of explaining the matter.

The Preston Association thanked the Council for the President's visit.

Professor Greenish forwarded copies of the Third and Supplementary Reports of the Committee of Reference in Pharmacy of the British Pharmacopœia.

The date of the January 1912 Council-meeting was fixed for the second Wednesday of the month.

THE PHARMACEUTICAL DEPUTATION.

Mr. NEATHERCOAT raised the question as to whether the report which has been published of the pharmaceutical deputation which waited on the Chancellor of the Exchequer is a full one. He thought certain parts must have been omitted from the opening speech of Mr. Young, to whom it seems that a slight injustice has been done.

Mr. CROSS asked whether a report of the deputation was not published at the time.

The PRESIDENT : "Only in an abridged form."

Mr. CROSS said the opinion of the country is that the official report now published is misleading.

Mr. YOUNG agreed that the report is misleading and inadequate. He claimed to be able to put his ideas into words, but he was ashamed of the report of his speech that has been sent out by the Government. He supposed that it would be a breach of etiquette to publish the verbatim report?

Mr. NEATHERCOAT said his object had been to vindicate Mr. Young to the public.

Mr. ROWSELL agreed that this had been done.

Mr. YOUNG said he did not mind so long as the Council did not think him quite such an ass as he appeared to be from the report.

IMPERIAL RECIPROCITY.

The PRESIDENT said that at last Council-meeting he reported the interview which the Secretary and Assistant Secretary had had with Mr. C. J. Carroll, of the New South Wales Pharmacy Board, regarding the basis of the principles upon which reciprocity could be carried out. The Council had also had the advantage of the opinions of Mr. Albert Walsh, of the Cape Colony Pharmacy Board, and others. The draft proposals had been before the By-laws Committee, who had formulated enabling by-laws. The proposals referred to, it is proposed to send for observations to the various Colonial pharmacy boards through the Colonial Office. In the meantime he moved that the following by-law be read a first time :

Section VII.

24. The Council may by resolution at any ordinary meeting enter into reciprocal agreements with Colonial Pharmaceutical Authorities empowered under statute to grant certificates of competent skill and knowledge to practise pharmacy in any British Colony; and may make, amend, or determine thereunder regulations for the admission to the Register of Chemists and Druggists of Great Britain, without examination, of persons who after approved courses of study and examination have become registered in any British Colony as entitled to carry on the business of a chemist and druggist in that Colony; provided that no person shall be registered under this by-law who fails to produce satisfactory evidence of having undergone an approved course of study and of having passed the Qualifying examination of the Colony in which he is registered.

25. Persons holding Colonial certificates of qualification and being desirous of becoming registered, without examination, as chemists and druggists in accordance with the last preceding by-law shall submit to the Registrar such evidence as may be required by the regulations made from time to time by the Council in that behalf, and shall pay to the Registrar a fee of twelve guineas, whereupon if the Council shall so see fit they shall be registered.

Some discussion regarding the first reading took place in committee, after which the by-laws were formally read for the first time and deferred to the December Council-meeting.

This ended the public business.

PRESCRIPTION PROBLEM.

THE result of the problem which appeared in our issue of October 7 cannot be announced at present, but it is hoped to make the award in an early issue. In the meantime we print another problem which we hope our readers will attack. Postcard solutions should reach us before November 10, and prizes will be awarded at the discretion of the Editor.

*X Am Carb. 100%
2 dozen 100%
100% 100%
100% 100%
100% 100%
100% 100%
100% 100%
100% 100%*

A New Side-line.

THE outcome of a domestic experiment (writes "T.H.W." 203/14) was the production of a chemist's speciality in quite a new line—viz., a high-class pickle—and this is an account of the experience:

My wife had given to her the recipe of a pickle known as "Kou Tou," stated to be of Chinese origin. The following is the recipe:

Chopped celery in chunks about 1 in. long, 1 lb.
Small cucumbers (gherkins), 2 dozen.
Small white onions, 3 lb.
Two fair-sized cauliflowers.
White peppercorns, $\frac{1}{2}$ oz.
Green tomatoes, 3 lb.

Mix four quarts of cold water with $\frac{1}{2}$ lb. of salt, pour this over the vegetables, and let them stand over night. Next morning place the vegetables, with the brine solution, in a pan, which put on a moderate fire, and as soon as the contents begin to boil remove the pan and drain the contents.

Put three quarts of vinegar with $1\frac{1}{4}$ lb. of raw sugar over the fire. Mix a cupful of flour, $\frac{1}{2}$ lb. of mustard, $\frac{1}{2}$ oz. of turmeric, and $\frac{1}{2}$ oz. of powdered pimento with a little cold vinegar to make a thin paste; stir into the boiling vinegar, continuing the stirring for two minutes after the mixture boils. Pour this while boiling hot over the vegetables, and when cold put into glass jars.

One afternoon our household was thrown into disorder by the cutting-up of vegetables for the trial batch, and with copious tears in our eyes (due to the onions) operations of boiling, etc., were proceeded with, the whole house being pervaded with an acetous odour. As it was my half-holiday, I was pressed into service, and I behaved valiantly, smashing several culinary utensils, spilling the vinegar, putting out the fire in so doing, staining my clothes a beautiful golden colour, and generally making a mess of myself; but the job was finished, much to my delight.

The result was a highly satisfactory article, judging by after-events, due, as I tell my wife, to my presence on the spot with my professional advice and services. We had previously purchased some 7-lb. and other sized jars for

storage purposes. Our relations and friends had to have a free sample, with the result that orders began to flow in quite spontaneously, with very complimentary notes, saying "that they would just like a small sample for mother," if we would be so good, etc. At this rate in a very short time we should have had none for ourselves, so I thought it time to do a bit of trading, and procured a gross of 1-lb. glass-top jars from one of the sundry houses and 250 cheap black-and-white labels. I told all future inquirers I was selling the pickle at the shop. This did not stop them, and the price I charged—8d.—was highly remunerative to me; in fact, if the demand increases much more I shall soon have to move the manufactory of my "Li Hung Sen" pickles to more commodious premises. It brings fresh faces into the shop and gives the chemist's wife a chance to shine. I might mention that now is the best time of the year to procure green cucumbers, small onions, and the other fresh ingredients.

CHEMISTS' WINDOWS.

New ideas for dressing windows are invited. Photographs of windows sent to the Editor for reproduction should be accompanied by notes on how the displays were arranged.



Eau-de-Cologne Display.

THE window-display depicted above is one by Messrs. Neve & Co., chemists, 12 Wellington Place, Hastings. The main feature consists in the use of strips of lint hanging from the top of the window and the edges of shelves, to represent icicles. The notice, "Keep Cool," is in accordance with the general type of the display, and fulfils its duty of calling attention to the refrigerating properties of eau de Cologne. It is a display which our subscribers in the Southern half of the hemisphere should find seasonable at present.

NEW ZEALAND is the latest country to experiment with the cultivation of soya beans, the Department of Agriculture having taken up the matter.

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, London, E.C., November 2.

A QUIETER feeling is evident in the chemical and drug markets this week, and alterations in values have been fewer. Although the position of menthol remains substantially the same, efforts are being made to depress the market from the Continent in the interests of "bears," and prices to arrive and on the spot are weaker. Japanese peppermint oil on the spot continues firm, full prices having been paid. Opium in Smyrna has advanced by 6*d.* on renewed American buying. Russian anise is scarce and wanted on the spot. Hull castor oil is dearer, and Dalmatian insect-flowers have advanced 5*s.* Milk-sugar is active for shipment, and very high prices are being paid for small lots of second-hand parcels. Valerian is easier. Other changes include a slightly weaker market for quicksilver from second hands. Turpentine is lower. In essential oils, lemon oil is steady and unchanged both on spot and for new crop; lemongrass is scarce on spot, and cheaper to arrive. Otto is very firm, and clove oil has been reduced 3*d.* by the distillers. Eucalyptus oil is active. Among heavy chemicals, for which the demand is well maintained at the various centres, the chief changes include a slight advance in sulphur and a decline in sodium hyposulphite. Copper sulphate declined 5*s.*, but subsequently advanced substantially. Lead salts are firmer. Arsenic is steady. Cream of tartar is easier by 1*s.* per cwt. The principal changes have been as under:

Higher	Firmer	Easier	Lower
Cardamoms	Lavender oil	Aloes (Cape)	Areca
Castor oil	(Fr.)	Cod-liver oil	Clove oil
Eserine	Lead products	Cream of tartar	Diethyl-barbituric acid
Insect flowers	Sandalwood oil	Hydrastis	Jalap
Sulphur	Senna	Menthol	Linseed
		Quicksilver	Soda hyposulphite
		Valerian	Turpentine

Cablegrams.

SMYRNA, November 1:—The United States is again buying opium, and, as the drought continues, prices are firmer at 24*s.* per lb. c.i.f. for 11 per cent.

SMYRNA, November 2:—The sales of opium amount to sixty cases, at an average of 25*s.* per lb.; sellers are now asking 1*s.* per lb. more.

NEW YORK, November 2:—The drug business is dull. Opium is cheaper at \$7.75 per lb. for druggists' by single cases. Peppermint oil in tins is quiet at \$2.90 per lb. Cascara sagrada is easier at 9*c.* Tolu balsam is steady at 50*c.* Hydrastis (golden seal) has been reduced to \$5, and pareira brava is easier at 50*c.* per lb.

London Markets.

AGAR-AGAR is firm at 1*s.* 9*d.* per lb. for No. 1 Kobe strip and 1*s.* 8*d.* for No. 2.

ALUM.—The advance of 2*s.* 6*d.* per ton took place on Wednesday, the quotation for *lump* now being 6*l.* 2*s.* 6*d.*, and *ground* 6*l.* 12*s.* 6*d.* per ton.

AMMONIUM PRODUCTS.—The current price for *ammonium chloride* is about 29*s.* per cwt. for large crystals, 27*s.* 6*d.* for medium, and 26*s.* 6*d.* for small crystals. *Sal ammoniac* remains unchanged at 42*l.* per ton for firsts lump and 40*l.* for seconds lump. The advance last week referred to ammonium chloride only, and not to *sal ammoniac*, as stated by us.

ANISE OIL, STAR.—Further spot business has been done at 6*s.* per lb., and to arrive 5*s.* 2*d.* c.i.f. has been paid for September-October shipment, also 5*s.* 1*d.* c.i.f. for November-January. *Latest*: November-December shipment sold at 5*s.* 3*d.* c.i.f.; from Hong Kong 5*s.* 6*d.* c.i.f. is cabled for January-February shipment.

ANISEED is firm at 30*s.* 6*d.* per cwt. for Russian on the spot, and 29*s.* 6*d.* c.i.f. terms. Spanish is quoted 35*s.* per cwt. on the spot, but for shipment 32*s.* 6*d.* c.i.f. would be accepted.

ARSENIC is steady at from 11*l.* to 11*l.* 10*s.* per ton for Cornish (99 per cent. guaranteed) white powdered in ton lots.

BENZOLS are quiet and the turn easier, 90 per cent. offering at 1*s.* and 50 per cent. at nominally 11*d.* per gal.

CANARY-SEED is steady, with a few transactions reported at 46*s.* per quarter for Turkish, and 45*s.* 6*d.* to 48*s.* for ordinary to good Morocco.

CARAWAY-SEED.—There is less business doing, but the price is unchanged at 28*s.* per cwt. for good Dutch.

CASSIA OIL.—The spot price has further advanced, from 4*s.* to 4*s.* 3*d.* having been paid for 80 to 85 per cent. c.a., and for shipment this percentage is quoted 4*s.* 1*d.* c.i.f. Twenty cases have arrived *via* Havre.

CASTOR OIL.—Hull make of first pressing is dearer at 30*l.* per ton for November-December, and at 28*l.* 10*s.* for January-June, 1912, delivery, in barrels delivered free on wharf, London; pharmaceutical quality is 50*s.* per ton extra.

CHIREITA is nominal at about 8*d.* to 8½*d.* per lb., in the absence of supplies.

CINCHONA.—At the Amsterdam bark sale to-day (Thursday) the opening price was 3.05*c.*; the final result had not come to hand at time of closing for press.

CLOVE OIL.—The English distillers have reduced their prices by 3*d.* per lb. to 4*s.* 7*d.* per lb., owing to the decline in the spice.

CLOVES.—At auction nothing offered. Privately fair Zanzibar quality has been sold in small lots at 7½*d.* per lb. spot; to arrive 5½*d.* c.i.f. d/w. has been paid for near at hand, 4½*d.* for September-November, and 4¾*d.* to 4½*d.* for February-April, these prices being rather firmer than those asked earlier in the week.

COD-LIVER OIL.—The easier feeling noted last week is still apparent, and business has been done in finest non-congealing Norwegian oil at 11*s.* 6*d.* per barrel c.i.f. London, which is about 2*s.* easier on our previous. In other directions from 113*s.* to 115*s.* c.i.f. is quoted for finest brands.

COPPER SULPHATE.—After a decline of 5*s.* per ton, the market subsequently recovered, and closes at 19*l.* 17*s.* 6*d.* to 20*l.* for ordinary Liverpool brands, and 20*l.* 10*s.* for spring delivery.

CORIANDEER-SEED is quiet at 14*s.* 9*d.* to 15*s.* 6*d.* per cwt. for common to good Morocco. Russian is held for 20*s.* to 22*s.* 6*d.* per cwt. c.i.f. terms, according to quality.

CREAM OF TARTAR is easier to the extent of 1*s.* per cwt., 98-per-cent. powder offering at 87*s.* and 95-per-cent. at 85*s.* per cwt. on the spot.

CUMIN-SEED is firm at 26*s.* per cwt. for good Morocco. The crop of Malta this year is of poor quality, and is being offered at 27*s.* per cwt. c.i.f. terms.

DIETHYL-BARBITURIC ACID is slightly easier at 23*s.* 6*d.* per lb. net for 1-lb. lots.

FENUGREEK-SEED is steady at 10*s.* 6*d.* per cwt. for good Morocco, but the demand is small.

GINGER.—At auction 206 bags washed rough Cochin sold at 46*s.* to 46*s.* 6*d.*, and slightly wormy at 44*s.*; small cut Calicut in cases was bought in at 72*s.* 6*d.*, and sold out at 92*s.* 6*d.*; 70 bags partly mouldy limes Japan sold without reserve at 40*s.*

INSECT-FLOWERS.—Trieste quotations are 5s. per cwt. dearer at from 155s. to 160s. c.i.f. for good closed flowers.

IODIDES.—The exports of *potassium iodide* from Japan during August amounted to 3,815 kin, valued at 18,939. During the eight months the exports have been :

	1909	1910	1911
Kin ...	18,634	38,423	33,327
Yen ...	86,075	177,330	153,120

Of *crude iodine* the exports in August were 2,045 kin, and for the eight months they have been : 1909, 11,522 kin ; 1910, 7,545 kin ; and 1911, 9,884 kin.

LAVENDER OIL.—The quotation for finest French is now 15s. per lb.

LEMON-JUICE.—English squeezed, for delivery during January-February, 1912, is quoted 1s. 8d. per gal. It is stated that the supply this season will be smaller than usual owing to the small lemon crop and high price of case lemons. *Sicilian* is quoted 1s. 3d. per gal. c. and f. London, on the basis of 11 oz. citric acid per gal.

LEMON OIL remains steady on the spot, with good brands offering at 6s. 3d., and new crop at 4s. 8d. c.i.f. for January-March shipment, and in another quarter 5s. c.i.f. is asked for shipment from December onwards.

LEMONGRASS OIL remains firm on the spot at 5d. per oz., the supply being scarce ; to arrive the tendency is easier, importers asking for bids.

LINSEED is lower at 72s. 6d. per quarter for good clean seed.

LITHIUM CARBONATE is inquired for in several directions ; dealers quote from 2s. 4d. to 2s. 5d. per lb.

MENTHOL.—The market is not quite so firm, it being possible to buy a little Kobayashi or Suzuki at 27s. 6d. per lb. on the spot ; cheaper offers than this have been reported, but there is some doubt as to whether they are genuine, and little business is being done on which to fix a firm market price. The market for arrival on Wednesday was about 1s. per lb. easier all round, this probably being due to the efforts of Continental speculators to depress values. During the week business has been done to arrive, including Kobayashi-Suzuki for November-December shipment at 21s., and January-March at 18s. 6d. c.i.f., but there are now sellers of November-December at 17s. 6d. to 18s. c.i.f. The arrivals comprise ten cases *via* Hamburg and five cases *via* Havre.

The exports of menthol from Japan during August amounted to 6,950 kin, against 9,121 kin in August 1910. The eight months' exports (January to August) are as follows :

	1909	1910	1911
Kin ...	57,091	70,327	73,362
Yen ...	264,712	266,552	557,406

MILK SUGAR.—A good business has been done to arrive at 95s. per cwt. c.i.f. London, and this figure was quoted on Wednesday, but "without engagement" ; small sales of second-hand parcels have been made at 100s. on the spot.

The "New York Commercial," in its issue of October 21, states that the announcement that a prominent Philadelphia manufacturing and wholesale drug-house had cut the price on sugar of milk from the hitherto prevailing level of 20c. to 25c. to a basis of 15c. per lb. in barrel-lots created a mild sensation in the local trade, until it was discovered that this house had only ten or fifteen barrels to offer in New York, and was unable to state with any degree of accuracy when it would be able to obtain more. The offer to sell sugar of milk for prompt and 1912 delivery at 15c. per lb. was held open by this house, however, up to the close of business, but only small sales were reported to have been made at that figure, and the attempt thus made to "break the market" caused little uneasiness among the leading manufacturers, their agents, and wholesalers, who continued to quote and obtain 20c. and 25c. per lb. in the confident belief that the meagre offerings of the house in question will soon be exhausted and will not be replenished by any more on a 15c. basis.

MORPHINE remains very firm, the makers quoting on the basis of 11s. 9d. per oz. for hydrochloride-powder without engagement.

OPIUM.—Cables to hand from Smyrna on Wednesday now quote 24s. per lb. c.i.f. for 11 per cent. morphine—an advance of about 6d. on the previous quotation. Renewed buying has taken place on American account, and the drought continues. Spot is firm at 25s. 6d. for good Turkey

druggists', and of Persian there are now no sellers, the last price paid was 28s. In view of the reported Turkish successes in Tripoli, much uneasiness prevails as to what reprisals Italy may make in the way of bombarding the Turkish ports of Smyrna and Salonica. If such an event should happen, the position of opium would become acute.

A Smyrna correspondent writes on October 20 : "We have to report a very active week, with sales amounting to 237 cases, all for U.S.A. A slight concession was made by sellers at the beginning of the week, this quickly flooding our market with American orders. The prices paid at first were 23s. 9d. to 24s. 9d. for old and new selected extra Karahissar, according to crop, conditions, and quality, but these figures soon advanced to 24s. 3d. and 25s. 6d., with a firm market. At the close several buyers were still on the market, so we expect next week further developments will take place at probably 1s. or 2s. per lb. higher. The general impression is a 30s. market later on, as stocks are depleted and the country in general complains of the dryness of the season, which has prevented farmers from commencing their sowings for next year's crop. The arrivals are 815 cases, against 3,601 cases at same date last year."

OTTO OF ROSE.—Spot buying continues from hand to mouth, sales having been made at 52s. 7d. per English oz. for guaranteed pure. The Bulgarian market remains very firm, advices being to the effect that European and American buyers have placed orders more freely, and that one brand is now no longer offering.

PEPPER.—At auction 119 bags good to fine Tellicherry were bought in at 6d. to 6½d., 200 bags fair Lampong at 5½d., and 93 bags good Saigon at 5½d.; privately fair Singapore on the spot is quoted 5½d., and for arrival business included January-March shipment at 5½d. c.i.f. At auction *white* Singapore was bought in at 8½d. for fair, 7½d. for fair Penang, and 8½d. for fine Muntok. Privately the market is dull, with sellers of fair white Singapore at 8d. spot, and November-January at 7½d. c.i.f.

PEPPERMINT OIL.—Japanese dementholised remains firm on the spot, frequent sales having been made up to 7s. 9d. for Kobayashi ; for arrival a good business has been done, the sales including October-December shipment at 7s. 6d., November-December at 7s. 3d. to 7s., and January-March at 7s. to 7s. 3d. per lb. c.i.f. The arrivals comprise 115 cases *via* Hamburg. American H.G.H. is selling at 15s. 6d., London terms ; tin oil is extremely quiet.

The exports of peppermint oil from Japan during August amounted to 18,662 kin, against 1,463 kin in August 1910. The eight months' exports (January to August) are as follows :

	1909	1910	1911
Kin ...	101,232	94,080	103,019
Yen ...	301,678	288,274	349,093

PIMENTO.—At auction 50 bags were bought in at 2½d. ; market is firm privately.

QUICKSILVER.—The leading importers' price is unchanged at 8l. 10s. per bottle, and second-hands now quote 8l. 6s., which is 1s. easier.

SAFFRON.—New crop, guaranteed B.P., is quoted at 42s. per lb. ex warehouse.

SENEGA remains unchanged at 2s. 5d. per lb. net on the spot.

SOY is very firm, business having been done at 1s. 4½d. per gal., and for Wochan 1s. 5d. is now asked.

SULPHUR has been advanced 1l. per ton. Flowers are quoted 6l. 10s., and *roll* 6l. 5s. per ton ex wharf.

TURMERIC is steady, fair Madras finger offering at 26s. 6d. and whole bulbs at 23s., Bengal finger at 25s. and Cochin split bulbs at 15s. per cwt.

TURPENTINE is about 1s. 6d. per cwt. cheaper on the week, American closing to-day at 34s. 6d. per cwt. on the spot.

VALERIAN.—Foreign of new crop is again easier at 36s. per cwt. c.i.f.

WAX, VEGETABLE.—Japanese is unaltered at 40s. to 41s. per cwt. on the spot, and to arrive at 38s. c.i.f.

London Drug-auctions.

Only new goods offered to-day, for which there was a very fair demand. Cape aloes sold at a decline of about 6d. per cwt., but Curaçao in boxes brought very full prices, especially for the medium grades. Java areca of poor quality sold

cheaply. Ammoniacum sold privately. Buchu sold in retail at a slight advance, good round leaf being scarce. Sumatra benzoin sold steadily. The few cardamoms offered brought firmer prices. Calumba sells steadily. Cubebs are neglected; no lump dragon's-blood offered. Eucalyptus oil sold cheaply compared with the rates asked privately. Honey is quiet, very little Jamaica being offered. Matto Grosso ipecacuanha was cheaper as compared with the rates paid privately, but dearer on previous public sale. Jalap sold at a reduction on forced sales. Lime oil was a trifle easier for hand-pressed. Myrrh is steady. Rhubarb quiet, but firm. Sarsaparilla was firm for genuine grey Jamaica, while Lima-Jamaica was about steady. Tinnevely senna was firm to 4d. dearer. Beeswax was quiet generally, the chief demand being for Abyssinian, which sold privately. Jamaica was neglected. The following table shows the quantity of goods offered and sold, the asterisk denoting private business:

	Offered	Sold		Offered	Sold
Aloes—			Gum acacia	151	114
Cape	35	29	Ipecacuanha—		
Curaçao (boxes) ..	63	38	Cartagena	5	0
Socotrine (kegs) ..	55	0	Matto Grosso ..	14	4
Ammoniacum	15	*9	Minas	19	0
Anise oil, star	6	0	Jalap	36	21
Anise, star	25	0	Kamala	15	0
Annatto-seed	37	0	Kino	7	0
Areca	60	60	Kola	3	1
Asafetida	6	*6	Lime-juice	30	10
Balsam Peru	2	0	Lime oil	29	14
Benzoin—			Myrrh	46	16
Palembang	36	0	Nux vomica	29	29
Sumatra	33	33	Olibanum	50	0
Buchu	25	2	Orange-peel	7	0
Calumba	248	45	Orchella-weed ..	80	0
Camphor (Jap. ref.)	18	0	Orris	3	3
Cannabis indica—			Pennyroyal	72	72
African	6	0	Poppy-heads	50,000	0
Bombay	2	0	Quinine sulph. (cs.)	3	0
Marmagoa	4	0	Rhubarb (China) ..	28	6
Cantharides (Ch.) ..	5	*5	Rose oil	2	0
Cardamoms & seed ..	58	31	Sarsaparilla—		
Cascara sagrada	248	0	Grey Jam.	13	13
Cascarilla	5	0	Lima-Jam.	15	9
Cassia oil	5	0	Native Jam.	3	3
Cinchona	45	*6	Scammony-root ..	14	0
Civet	5	0	Seedlac	21	0
Coca-leaves	6	0	Senna and pods—		
Colocynth apple	6	*6	Alex.	23	3
Cowhage	1	*1	Tinnevely	152	148
Cubebs	21	0	Tonka beans (Para) ..	5	3
Cuttlefish-bone	110	0	Turmeric	231	0
Dragon's-blood (reed)	10	0	Wax (bees)—		
Ergot	14	3	Abyssinian	264	227
Eucalyptus oil	50	20	East African	25	4
Fennel-seed	44	0	East Indian	2	*2
Honey—			Jamaica	31	0
Californian	116	0	Madagascar	183	0
Cuban	5	5	Madras	1	0
Honduras	30	30	Morocco	5	0
Jamaica	18	0	Mozambique	24	0
N.Z.	75	11	West Indian	4	4
West Indian	39	0	Zanzibar	152	20

ALOES.—Cape was about 6d. per cwt. cheaper, but no good firsts' quality was offered. Of 35 cases Mossel Bay offered, 29 sold on usual 20 per cent. tares; good hard bright seconds at 33s. to 33s. 6d., fair ditto, 31s. to 32s. 6d., dullish seconds 29s. to 29s. 6d., fair softish part dull cindery 28s., and ordinary dull 27s. Of Curaçao, 63 boxes offered and 38 sold, including good liver at 55s. to 56s., middling to fair dullish liver 53s. to 54s., duller and dark ditto 42s. to 42s. 6d. For livery part capey 38s. was wanted, and 35s. for capcy.

ANNATTO-SEED.—A lot of 37 bags good dark-red Java was held at 2½d. per lb.

ARECA.—Sixty bags of very poor partly wormy Java sold at from 11s. 6d. to 12s. per cwt. without reserve.

BENZON.—Steady; 28 cases of good Sumatra seconds with small to bold almonds, slightly false packed ends sold at from 7l. 12s. 6d. to 7l. 15s. per cwt. Four cases of common broken Sumatra thirds sold at 80s. The *Protesilaus*, from Singapore, has brought 64 cases.

BUCHU.—In slightly better demand. Only 3 bales round leaf offered, and one sold at 4s. 7d. for fair greenish slightly stalky, and a further bale at 4s. 1d. for slightly yellowish and stalky. Ovals, more or less stalky, were held at 1s. 9d., and for genuine greenish longs, which are scarce,

2s. was refused. Eleven packages have arrived from Mosse Bay.

CALUMBA.—Steady. Seven bags of small to extra bold bright clean yellow sold at 32s.; 20 bags fair small to bold natural sorts realised 18s.; and 20 bags fair yellowish native washed sorts were taken at 20s. per cwt.

CANNABIS INDICA.—Fair Bombay tops were limited at 5s., Marmagoa greenish siftings at 3s. 6d.; 5 bales common stalky and brown African (yielding 6.7 per cent. extractive to alcohol) were bought in at 1s. per lb., a bid of 3½d. being refused.

CARDAMOMS.—The small supply of 31 packages Ceylon-Mysore offered sold at firmer rates, as follows: Good bold long, slightly dullish, 3s. 8d.; medium dullish, few open, 3s. to 3s. 2d.; small and medium palish to pale, 2s. 5d. to 2s. 10d.; very small palish, 2s. 5d.; splits and pickings, 2s. 1d. to 2s. 2d.; ordinary to fair greyish seed, 2s. 7d. to 2s. 8d. For 10 cases dark Ceylon plantation seed 2s. 8d. was wanted.

COCA-LEAVES.—A bid of 6d. per lb. is to be submitted for 3 bales thin brownish Ceylon-Truxillo leaves.

COLOCYNTH.—Six cases fair small to bold Turkish apple, partly broken, sold without reserve at 8d. per lb.

DRAGON'S BLOOD.—Reed only offered, 10 cases being held for 9l. 10s. for fair quality. The arrivals comprise 21 cases from Bombay.

ERGOT.—Seven bags of bold sound Spanish just arrived from Vigo were held at 5s. 3d. per lb. Three bags Russian sea-damaged sold at 4s. 6d. and mouldy at 3s. 3d. per lb. on underwriters' account.

EUCALYPTUS OIL.—A parcel of 40 cases, testing 78 per cent. eucalyptol according to Parry's analysis, was limited at 1s. 3d. per lb. Ten cases sold without reserve, including 72 per cent. at 1s. 1d., 62 per cent. at 1s. 2d., and globulus 62 per cent. at 1s. 2d. per lb. Privately 80 per cent. is offered at 1s. 4½d. per lb. c.i.f.; one well-known brand has been withdrawn from the market.

FENNEL-SEED.—A lot of 44 bags fair East Indian was limited at 25s. per cwt.

GUM ACACIA.—A lot of 53 bags Australian mostly sold, including fair glassy red sorts, at 40s. to 45s., pickings at 24s., dust at 16s., and glassy block at 21s., all subject; grease-damaged realised 21s. to 23s., without reserve; 31 bales of Soudan sold at from 55s. to 57s. 6d. for fair pale soft picked gum; 30 bales Gerizeh siftings were held at 27s. 6d., the limit being 30s. For 20 bags of glassy Pondicherry 30s. was wanted.

HONEY.—Quiet. The chief sales consisted of 30 cases *Honduras* from Belize, which realised 27s. for darkish brown liquid, part setting; 33 cases *St. Lucia* were held at 30s. for fair brown liquid; 116 cases *Californian* were held at 45s., and for set white *New Zealand*, in cases, 35s., was wanted. Eighteen barrels *Jamaica* were bought in at 31s. for pale brown setting, and 5 casks Cuban sold at 30s. 6d. for fair liquid.

IPECACUANHA.—Previous to the auction up to 9s. 6d. per lb. had been paid for Matto Grosso description—an advance of 10d. on the public sale of a fortnight ago—and for Cartagena 9s. 3d. has been paid. A recount of the stocks existing on November 1 show that the recent figures have been incorrect, there being at the above date about 130 packages in the drug-warehouses (this including 13 Matto Grosso catalogued for sale but not to hand). These are divided as follows: Matto Grosso, 70; Minas, 19; Johore, 18; and Cartagena, 25. In auction 4 bales Matto Grosso sold at from 8s. 11d. to 9s. 1d. for fair bold, being an advance of 3d. to 5d. on the sale a fortnight ago, but about 5d. to 6d. less than the prices paid privately. Another 10 bales of Matto Grosso, 6 bales Minas, and 5 packages Cartagena in various interests were all held for 9s. 6d. per lb.

JALAP is lower. Thirty-six bags were offered without reserve and 21 sold, comprising small to bold fairly heavy (testing 10 per cent. of resin) at 1s. 3d. to 1s. 4d., and for small to bold part heavy (10 per cent. of resin) 1s. 1d. was obtained. A bid of 1s. 2d. was refused for drug testing 9.3 per cent. of resin. Privately sales have been made at

1s. 5d. per lb. for 9½ per cent. resin; 50 bags have arrived from Vera Cruz.

KOLA.—A single bag from Samoa sold at 3d. for dried darkish, mostly halves.

LIME-JUICE.—Ten barrels fair palish raw Dominican sold at 1s. 3½d. per gal.; 20 hogsheads of browner ditto were held at 1s. 2d.

LIME OIL.—Fourteen cases of fair distilled West Indian realised 1s. 1d. to 1s. 2d., and for hand-pressed 5s. 3d. per lb. was wanted, being 3d. cheaper than previous auction sale.

MYRRH.—Twelve cases of fair slightly blocky native-picked Aden sorts sold at 65s., and 4 cases of siftings at 46s. per cwt.

NUX VOMICA.—A lot of 29 bags fair dark thick seed from Kamranh sold at from 10s. 6d. to 10s. 9d. per cwt.

ORRIS.—Three packages Mogador sold at 32s. 6d. to 38s. 6d. for common lean to fair.

PENNYROYAL HERB.—For 72 bales from Algiers 9s. 6d. per cwt., no discount, gross for net, was paid without reserve.

POPPY-HEADS.—A lot of 100 bags (containing 50,000 heads) was limited at 20s. per thousand.

QUININE.—Three cases of *Pelletier's* make were limited at 1s. per oz.

RHUBARB.—Steady in auction. Six cases of small to medium round Canton well-trimmed, with three-quarters good rather palish pinky fracture sold at from 1s. 5d. to 1s. 6d. per lb. Bold flat High-dried, with about 60 per cent. fair pinky fracture, was bought at 1s., and medium flat at 11½d. Medium to bold round horny High-dried, with three-quarters fair fracture, was limited at 8½d. per lb. There has been a good inquiry privately.

SARSAPARILLA.—Genuine grey Jamaica was firm, 13 bales selling at from 1s. 8d. to 1s. 10d. (one lot 1s. 7d.) for part country-damaged to good fibrous. Lima-Jamaica was about steady, 9 bales realising 1s. 1d. for fair, and 1s. for part coarse. Two bales yellow and red mixed Native-Jamaica sold at 10d. A further six bales Lima were bought in at 1s. 3d., a pocket bid of 1s. 2d. having been refused.

SENNA.—Tinnevely met with a good demand at firm to ¼d. per lb. higher rates; extra bold greenish sold at 5½d. to 5¾d.; bold medium greenish, 3½d. to 4½d.; small and medium greenish, 2½d. to 3d.; and common yellow, small to middling, 1¾d. to 2½d. per lb. Pods 1¾d. to 2d. per lb. Of *Mecca* pods 2 bales of ordinary stalky, rather torn, sold without reserve at 3d.; 5½d. was wanted for sound darkish ditto.

TONKA BEANS.—A case of fair black Para sold at 9s. 6d., and two small parcels of common reddish and partly wormy ditto realised 4s. Eight packages have arrived *via* Havre.

WAX, BEES'.—The chief sale was 215 packages Abyssinian, which the broker knocked down in the rostrum to a buyer who had previously given him a pocket bid of slightly below 7l. per cwt.; in another interest 12 bags Abyssinian realised 6l. 15s. for slightly drossy yellow. For Zanzibar block from 6l. 15s. to 6l. 17s. 6d. was paid for fair brown, and for fair even Madagascar block 6l. 17s. 6d. was wanted. Four bales half dark and drossy East African sold at 6l. 12s. 6d. per cwt. A string of 30 packages Jamaica was held at 7l. 15s. A single case of good yellow West Indian sold at 7l. 5s., and a further 2 cases at 7l. 10s.

Heavy Chemicals.

The tone of the heavy-chemical market continues firm, and a good all-round business is being done in all directions, though perhaps hardly quite so heavy as of late. Indications point to higher figures rather than otherwise, owing to advancing costs of manufacture.

SULPHATE OF AMMONIA.—This market is quietly firm, and there is not much doing on forward, as buyers are averse to paying any premium on present prices. Nearest figures are: Beckton, prompt, 25 per cent. ammonia guaranteed, 13l. 16s. 3d.; London terms, 13l. 10s.; Leith, 14l. 7s. 6d.; Liverpool, 14l. 6s. 3d.; and Hull, 14l. 3s. 9d.

BENZOLS are still very scarce and prices are only nominal. Naked figures: London, 90 per cent., 10½d. to 11d., and 50 per cent., 9½d.; North, 10d. to 10½d. and 9d. respectively.

LEAD PRODUCTS are firm and dearer. White lead, 21l. to 21l. 5s., and red lead, 18l. per ton, Tyne; white acetate of

lead, 24l. 10s. to 25l.; and brown acetate, 21l. to 21l. 10s.; nitrate of lead, 25l. to 25l. 10s., all per ton less 2½ per cent.

ALKALI-PRODUCE.—Good business is being done both on prompt and forward, and prices are firm. Bleaching-powder in heavier request; prompt, 4l. 15s. to 5l. for softwood casks, on rails; contract basis, 4l. 2s. 6d. to 4l. 7s. 6d. Caustic soda unchanged; home trade, 76 to 77 per cent., 10l. 7s. 6d.; 70 per cent., 9l. 12s. 6d.; and 60 per cent., 8l. 12s. 6d., with export figures 7s. 6d. per ton less. Ammonia alkali, 58 per cent., 4l. to 4l. 5s. per ton, on rails, in bags. Soda-crystals, 52s. 6d. to 57s. 6d. per ton, in bags, on rails. Salicake, 42s. 6d. Bicarbonate of soda, 5l. to 5l. 15s. per ton, according to packages, etc. Chlorates of potash and soda, 3½d. to 3¾d. per lb. Yellow prussiates of potash, 4¾d. to 4½d.; and soda, 2¾d. to 3d. Hyposulphite of soda lower at 4l. 15s. to 5l. 5s. per ton for ordinary crystals, in casks; 1-cwt. kegs, 5l. 10s. to 7l. 15s. per ton, according to quality and quantity. Silicates of soda, 140° Tw., 4l. 7s. 6d. to 4l. 17s. 6d.; 100° Tw., 3l. 17s. 6d. to 4l. 7s. 6d.; and 75° Tw., 3l. 10s. to 4l. per ton, according to quality, quantity, and destination.

Manchester Chemical Market.

October 31.

The month just closed has not presented much variation in heavy chemicals, and prices have been well maintained, and there has been some improvement to note in certain articles. There are still great complaints from merchants and traders as to deliveries by railway companies, and we have information that even yet goods are sometimes a week on the way from London. Sulphate of copper continues to appreciate in value, and closes at 20l. 2s. 6d. to 20l. 7s. 6d. per ton. White powdered arsenic is offering at low figures at Garston. Miscible and solvent naphthas are still strong. Coal-tar products are generally firm. Sulphate of ammonia is 14l. 2s. 6d. to 14l. 5s. per ton, f.o.r. Manchester.

American Drug-market.

New York, October 29.

Business in drugs is fairly satisfactory in the New York market, although the turnover hardly measures up to a normal fall volume. Prices generally are steady, with slight changes noted in several articles.

ALOES.—Owing to the tardy arrival of new crop in this market prices for case Curaçao rose during the interval ¾c. per lb., but with good supplies now available values have receded to the former level of 7¼c., at which figure late receipts have been sold. Gourds are in rather meagre supply, and 13c. is asked for spot goods.

CANADA BALSAM is in more active demand, but supplies are plentiful and prices are steady at \$4.10 per gal. in barrels, \$4.20 for cans. *Oregon* is obtainable at 80c. or less, as to product.

CASCARA SAGRADA maintains its firm position in coast markets owing to a considerable shortage in the current year's peel. The local situation has varied little, absence of important demand keeping prices on a basis of 9c. to 9½c., as to age and quantity.

COPAIBA.—C. & S. American grades are moving freely, and for the better descriptions up to 45c. is asked. The range of prices extends, however, to 39c., which irregularity is stated by importers to be due to the presence of balsam adulterated with African product. *Para* is in quiet demand at 60c.

HYDRASTIS continues in firm position, due to continued scarcity in gathering districts and the near depletion of stocks in secondary markets. Several small consignments have lately come to hand, but these have not modified the stringency in the face of a good export demand, and prices hold firm at \$5.25 to \$5.75, the higher figure being for prime drug in moderate lots. (See cable.)

IPCAC.—Cartagena is tending higher owing to restricted supplies on spot and the firmness of advices from primary quarters. Holders are not anxious to move their stocks meantime, and \$2.25 is the best that can be done, with higher prices probable. There is little call for Rio and the market is almost bare.

JALAP is in less active demand, and prices are 2c. lower at 33c., with freer arrivals.

PEPPERMINT OIL (American).—A conservative estimate of the new crop places the output at about 245,000 lb., which is 15 per cent. ahead of last year's yield. The reduction of held-over stock tends, however, to offset this comparison, and anticipation of shortage in the year's supply is the occasion for a very firm attitude on the part of primary holders. Local dealers are not responding to these views implicitly, being more concerned with the disposal of stocks on hand, and owing to the lack of active demand the spot market is distinctly easier at \$2.90 to \$2.95 for tin oil, with \$2.87½ reported available in some quarters.

TOLU BALSAM continues very scarce, and under active inquiry for reasonable requirements prices have advanced rapidly to 50c., with 60c. demanded by some of the principal holders.



Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with. Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest. Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

Are Plasters ever Prescribed?

SIR,—I mean plasters made from magisterial formulæ. The pharmacist sells more belladonna and other porous plasters than ever he did, but special plasters to be spread on chamois and composed of two or three ingredients, the old

R. Emp. ferri, emp. opii, emp. plumbi, aa. partes æquales, ut fiat emplastrum hujus formæ et magnitudinæ.

These we seldom see now, at least on this side of the water. How is it on the other side?

Yours truly,

Dublin, October 30.

J. C. McWALTER.

Pharmaceutical Reciprocity.

We have received the following statement on this subject from a leading Australian pharmacist :

"Many years ago Dr. Sydney Plowman, then director of the College of Pharmacy, Melbourne, reported on the relative merits of the training of young pharmacists in Great Britain and in Victoria. His summing up was very much in favour of Victoria. From that day onward the Pharmacy Boards of Australia have felt that it was entirely a one-sided bargain having to accept certificates of competency issued by the Pharmaceutical Society of Great Britain without a reciprocating advantage. True it is that on the part of the Australian Boards the advantage is purely sentimental, for no Australian pharmacist would dream of settling permanently in Great Britain. Sentimental though the advantage may be yet, a young nation is like a young man, sensitive on points of what he maintains is justice. Several young Australian pharmacists have visited the British Islands within recent years, and would have liked to take up positions for a time for the purpose of extending their experience, but these young men have felt that the want of a definite standing, which they considered their experience and education demanded, did not admit of their occupying these positions in compatibility with their dignity.

"Within the last few years there has been a recrudescence of the demand for reciprocity. The Australian Pharmaceutical Conference has taken it up. The various Pharmacy Boards have settled their differences and accept each other's certificates of competency, and now they wish the reciprocity to extend to Great Britain, and justly so. The Pharmacy Board of Queensland has been especially active, backed by the Pharmaceutical Society of that State. In December of 1908 the Amending Pharmacy Act gave power to the Pharmaceutical Society of Great Britain to frame regulations admitting holders of Colonial certificates to registration. Both the Pharmacy Board and the Pharmaceutical Society of Queensland have asked the Council of the Pharmaceutical Society of Great Britain to hasten in framing the necessary regulations. It was their intention to seek for fresh legislation to govern the practice of pharmacy in this State, and they wanted to know what steps the British Society intended taking.

"The Council of the Pharmaceutical Society of Great Britain chose to look upon this as a demand on the part of a small community to force their hand, and they entirely overlooked the fact that it was their own certificate holders who benefited by the existing state of affairs. It appears also that some of those connected with Bloomsbury Square have been accusing the Secretary of the Queensland Pharmaceutical Society, a well-known English pharmacist, of stirring up bad feeling between the two Societies. This the Secretary indignantly denied at a meeting of the Council of his Society. He admits to expressing the opinion that the system of education the Queensland pharmacist has to comply with is infinitely superior to the haphazard education of most

young English pharmacists, and that the Queensland examination is more thorough than the English examination.

"Anyhow, the result of the attitude of the Council of the Pharmaceutical Society of Great Britain has been such that the Queensland Government has this Session introduced a Bill which will give power to the Pharmacy Board to refuse the registration of holders of British certificates, excepting on a reciprocity basis. Doubtless, in justice to themselves, the Pharmacy Board will exercise their rights, but what will that mean to the many Englishmen and Scotchmen who are coming to Queensland to better their conditions? The Pharmaceutical Society of Great Britain has done these young men an injustice through not being able to anticipate what an individual possessed of ordinary common-sense could easily have foreseen."

What is the "Rexall" Secret?

SIR,—I perused the annual report of Rexall's in last week's *C. & D.* with great interest. To my mind this must make the British pharmacist pause and consider: how is it done? I think the secret lies in the fact that here is a series of smartly packed, reliable branded goods, and branded goods are what the public wants to-day. One important point to the pharmacist is that when he sells one of a series of branded articles to a satisfied customer he has no difficulty on future occasions in selling others of the same series.

Yours faithfully,

Stromness, Orkney, Oct. 31.

G. McDIARMID.

Subscribers' Symposium.

For questions, answers, incidents, and interchange of opinions among "C. & D." readers.

Appreciations.

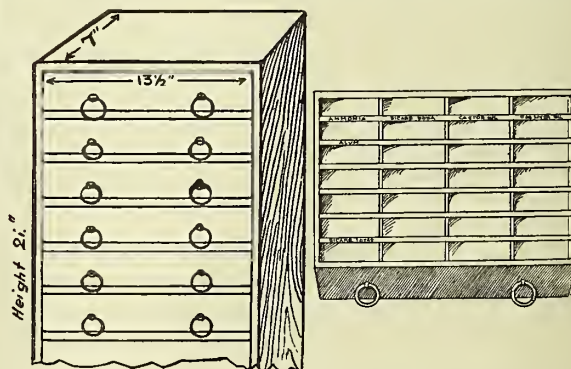
"I am very thankful to you for the promptness and courtesy with which you replied to any questions I asked during the past year."—(228/36.)

Counting-house Perfumery.

There is a French proverb *L'argent n'a pas d'odeur*, but banking in Madrid is associated in my mind with a delicate yet all-pervading perfume. Waiting to cash a cheque in the local branch of the Crédit Lyonnais during a recent visit there, a *garçon* passed holding a huge syringe aloft with the dignity of a priest carrying the Saint Sacrament. It was not the instrument dear to Molière's apothecaries, but a spray syringe; and he passed, not only among us customers in front of the counter, but among the clerks' desks behind, leaving a refreshing evidence of his passage on our olfactory nerves.—*Knight of the Road* (185/42).

Label-drawer.

Mr. E. J. Cox, Greenhithe (191/26), sends rough drawings of a label-cabinet which he and his errand-boy made. Our artist has prepared from them the drawing reproduced here-with:



The principal feature is that the spaces between the partitions in the label-drawers are narrower than usual, so that the labels must be placed on edge instead of lying flat, thus keeping them less untidy. As the imprint on the labels is thus not visible it is necessary to paste the name of each label on the partition. A great advantage is that one has simply to pinch the labels with thumb and finger tips in order to get hold of them. With the usual type of table-drawer there is considerable difficulty in getting at them quickly.

Legal Queries.

Consult the Legal Advice Section of "The Chemists' and Druggists Diary," 1911, p. 435, before writing about your difficulty.

Thistle (212/8).—"Chest and Bronchial Syrup" is not a dutiable title.

Dental Chemist (214/18).—For a full list of descriptions which chemists practising dentistry may use see the *C. & D. Diary*, p. 462.

Nemo (216/3).—The question as to whether or not a registered chemist may carry on a branch-shop as a drug-store with an unqualified manager is fully discussed in our *Diary*, pp. 437-8, to which please refer.

Doubtful (187/45).—Homœopathic medicines containing any scheduled poison in a quantity appreciable by chemical analysis are (subject to the "De minimis non curat lex" decision) poisons within the meaning of the Poisons and Pharmacy Act.

W. G. (212/1).—(1) Hooper's female pills are mentioned in the schedule to the Medicine Stamp Act, 1812, and are dutiable under any conditions. (2) The "Baby Powder" circular was fully explained in the *C. & D.* of October 28, index folio 648.

A. E. G. (215/53).—If it is necessary to put a hair-wash containing a preparation of cantharides in a poison-bottle a panelled bottle will not do, as such bottles are commonly used for liquids which are not poisonous. It would be better to use a ribbed white-glass bottle.

E. W. H. (254/16).—It would be perfectly legal for a registered chemist to use the description "Veterinary Dispensary" for his premises, as the decision by the High Court in *R.C.V.S. v. Groves* is conclusive as to chemists' rights; but a person who is neither a registered chemist nor a veterinary surgeon might be liable under the Veterinary Surgeons Act, a decision having been given in a County Court to the effect that "Veterinary Establishment" used by an unregistered person is an infringement of the Act.

Oxygen (213/23).—Neither of your labels would make the preparations liable to medicine-stamp duty, because they do not recommend them for the cure, prevention, or relief of any ailment, nor are any proprietary rights claimed on the labels. In 1904 the Board of Inland Revenue stated that the words "Prepared specially for" do not constitute a claim to proprietary rights. The fact that your predecessor stamped the preparations does not necessarily mean that you must do so, for although a Revenue rule is "Once dutiable, always dutiable"—this does not mean "Once stamped, always stamped."

Miscellaneous Inquiries.

We do not as a rule repeat information given in this section during the past twelve months. When references are given to past issues, these should be consulted. Back numbers for the past five years can generally be obtained from our office at the published prices. We do not undertake to analyse and report upon proprietary articles.

Nameless Querists.—We call attention to the first rule of our correspondence section, viz.: "All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with." We receive queries daily with which no name and address are given. The address-label of the wrapper in which the *C. & D.* is sent serves as a coupon, and may be used by querists.

W. R. (147/44).—FOOD AND DRUGS CERTIFICATE.—To obtain the certificate of the Institute of Chemistry by private study is an arduous task. It would be necessary for the *sine curricula* student to take the B.Sc. degree of London University or National University of Ireland as an external student, requiring at least three years to elapse before graduation. Following this is special preparation for the Intermediate and Final examinations of the Institute of Chemistry, meaning at least another year's special preparation. It is a quicker and a safer plan to take the course of study laid down by the Institute of Chemistry at a recognised institution in London or almost any large provincial town. The alternative scheme, requiring two years' study at a recognised institution and two years' training under a F.I.C., has much to recommend it. The university-trained candidate for the Food and Drug certificate is practically obliged to enter a public laboratory for special training before presenting himself for examination, while the two years' training is a valuable commercial asset when the desired qualification is gained. The ultimate cost of the qualification is much the

same whichever method of obtaining it be adopted. The books requisite for study reveal themselves during the training. Indeed, unless recourse is had to the library of the teaching institution or the public laboratory, the cost of these works is somewhat prohibitive.

R. P. (190/31).—LEUCORRHEA OR WHITES IN CATTLE is a form of vaginitis or metritis, and is mostly found in old cows. The treatment is to give nourishing food and inject astringent lotions into the vagina. Satisfactory substances to employ are cupri sulphas, argenti nitras, zinci sulphas, or alumen. The internal administration of tinct. ferri perchlor. in doses of 3j-3ij greatly assists recovery.

An Old Subscriber (194/37).—There is nothing in your cough-mixture, to which you propose to add heroin hydrochloride gr. $\frac{1}{2}$, which is incompatible with the heroin. You should, however, bear in mind that although the action of heroin upon the bronchi differs from that of the morphine in the chlorodyne, both are similar in hypnotic action, so that you should consider the desirability of omitting the chlorodyne and replacing it with a little spirit of chloroform and peppermint.

Phenactin (193/66) has sent us two samples of preparations for analysis, dating his letter from a town in Scotland and signing it with a name which is not that of a chemist there. A communication addressed to him has been returned through the Post-office marked "Not known." Until "Phenactin" substantiates his *bona fides* we can do nothing in regard to analysing the samples.

Quercus (195/38).—The tape for BLACKLEG-PREVENTION IN CATTLE is very old-fashioned and seldom resorted to nowadays, "blacklegoids" being the scientific remedy. Good results are also obtained from sodium hyposulphite or carbolic oil internally. Irritants are used to treat the tape before insertion, such as ol. cantharidis and ol. terebinth. c. acet. acetic.

Rex (153/13).—ANALYSIS OF FERTILISERS.—Full details of the analytical procedure to be followed in order to comply with the regulations made under the Fertilisers and Feeding-stuffs Act in regard to the analysis of fertilisers are given in Leaflet No. 18, which can be obtained post free from the Board of Agriculture and Fisheries, 4 Whitehall Place, London, S.W. The directions laid down in the leaflet must be followed to ensure concordant results.

Soluble (202/73).—(1) CAPSICIN is an oleo-resin of capsicum which is equal in strength to twenty times its weight of chillies. "Soluble capsicin" is not an oleo-resin, and is only about a quarter of the strength of capsicin, while it is soluble in water in any proportion. (2) Astronomical subjects are not pharmaceutical.

J. de P. C. (Lisbon) (179/65).—(1) SOLIDIFYING PARAFFIN.—There have been many suggested processes for solidifying paraffin which were summarised by Dr. Samuel Rideal in a paper before the Society of Chemical Industry in 1891 under the headings of (a) saponification by means of soap; (b) with vegetable saponifiers; (c) with other substances, such as gelatin, glue, casein, gum. Dr. Rideal gave the results of a large number of experiments he had conducted with the various processes. Since then several patentees have dealt with the subject. Ekenberg, for instance (16,541/96), adds 1 to 15 per cent. of the fatty acids of wool-fat free from glycerides, heats to 120°-200° C., cools, and adds alkaline hydroxides in sufficient quantity to neutralise at least half the fatty acids. Kness's process (7,481/04) is as follows: Dissolve 10 kilos. of resin in 100 litres of petroleum, and stir in 10 kilos. of melted animal fat. A solution of 2 kilos. of sodium hydroxide in 3 litres of water is then stirred in, and after two hours 1 litre of hydrochloric acid is added. Four hours afterwards 2 kilos. of sodium hydroxide in 2 litres of water is added, the mixture allowed to stand for from two to three days, heated under slight pressure for three hours, and poured into moulds. Brun's process consists in adding 3 to 6 per cent. of soap and either 1 per cent. of wax or 2 to 6 per cent. of fat-pitch. Heyden's method is to mix with 100 parts of mineral oil 6.7 parts of glue (softened in water) and 0.67 of tannin. Quillaia which has been used does not yield a solid preparation. (2) We cannot furnish you with formulas for imitating the proprietary articles you mention.

J. S. S. (175/18).—BALSAM OF SULPHUR is credited with anthelmintic properties. The dose of the dog-mixture given in the *C. & D.* September 23, index folio 494, is, as you surmise, for a 10-lb. dog.

G. B. (172/57).—FLUID-CASTING METHOD OF MAKING POTTERY.—The use of fluid clay for casting earthenware is comparatively modern. It is based upon Weber's observation that the plasticity of clay, which is the difficulty to be overcome in making a casting fluid, is destroyed by dissolving the colloids which it contains. This can be effected by

adding small quantities of alkali, but the process is retarded by the quantities of salts, especially sulphates, which a clay can absorb and which precipitate the colloids. When this difficulty is overcome it is possible to cast sanitary and fire-clay goods of great size and thickness, despite the coarsely powdered and specifically heavy substances, such as shale, quartz, and corundum, which are added. To obtain the requisite degree of fluidity each clay must be treated on its own merits. The chemicals employed to effect liquefaction are sodium and potassium hydroxides, ammonia and the sodium, potassium and ammonium salts of weak acids, such as carbonic, phosphoric, oxalic, and boric acids. The salts of the stronger acids (sulphuric, nitric, hydrochloric, and acetic acids) retard liquefaction, as noted above. Of the divalent bases, those soluble in water—*e.g.*, barium and calcium hydroxides—precipitate colloids, though under certain conditions they may influence liquefaction favourably. The use of non-plastic substances is also possible when they have been ground with water and 0.5 to 1 per cent. of alkali added. The fluidity of the paste can be increased by the addition of small quantities of humous or carbonaceous substances (peat, lignite, etc.), and stiffness can be obtained by the addition of acids. The moulds used are water-absorbing.

Pharmacist (216/17).—"KINDERBALSAM" is a favourite Continental preparation. We quote the following formula from "Pharmaceutical Formulas":

Ol. caryoph., cinnam. et limonis aa.	2 c.c.
Ol. feniculi, lavand., menth. pip., rosmarini, et salviae aa.	1 c.c.
Spt. rectificat.	600 c.c.
Aquam destillat. ad	1,000 c.c.

T. T. T. (185/49).—INSOLUBLE ADHESIVE.—The addition of a quantity of potassium bichromate to glue renders the adhesive insoluble when once it has dried and been exposed to the sunlight. This would probably answer for sticking silk on to wood which is destined to remain under water.

Dermos (185/40).—OPTICAL EXAMINATIONS.—Full particulars of the optical diplomas obtainable in this country were given in the *C. & D.* Educational Number (August 12). We also noted the schools and tutors from whom optical instruction is obtainable.

T. A. J. (220/21).—CASEIN FOOD.—Various nerve-foods are being sold which consist of casein and a proportion of glycerophosphates. In some the casein is combined with an alkali with the object of increasing its solubility. When sodium glycerophosphate is used the proportion is about 5 per cent. Calcium glycerophosphate, lecithin, and malt-extract powder are other medicinal ingredients employed, while one we examined a short time ago seemed to contain a trace of an iron salt.

A. E. S. (71/6).—PRESCRIPTION DIRECTIONS.—A study of Ince's "Latin Grammar of Pharmacy" (5s., Baillière), or Bennett's "Medical and Pharmaceutical Latin" (6s., Churchill), will best fit you to interpret the directions given on Latin prescriptions.

A. E. M. (203/3).—SOILS.—Hall's "The Soil. An Introduction to the Scientific Study of the Growth of Crops" (5s., Murray) should first be studied, while the methods of analysis can be obtained from Wiley's "Principles and Practice of Agricultural Analysis" (2 vols., Williams & Norgate). There is no cheap work on the analytical side of the subject.

Floox (201/39).—CHEMICAL LECTURES.—Three years ago as the result of a correspondence there were published in the *C. & D.* the outlines of some popular lectures suitable for delivery by pharmacists. You will find these in the *C. & D.*, February 15, 1908, p. 279 (on "Matter"); February 22, p. 313 (on "Water"); February 29, p. 349 ("Some Interesting Drugs"); March 7, p. 385 ("The Breakfast-table"). The subject was also dealt with in the *C. & D.*, 1890, in the issues for February 22, March 1, and March 8, pages 256, 293, and 335 respectively. "Scientific Mysteries" is out of print, but a copy might be obtained by advertising in the Coloured Supplement. You can also get many ideas for a lecture from Martin's "Triumphs and Wonders of Modern Chemistry," which was reviewed in the Summer Number.

C. L. (186/42).—DISPENSING FOR DOCTORS.—The following is the usual scale of charges for dispensing for doctors: *Mixtures*, 1d. per oz., with a minimum of 4d.; *lotions*, same minimum, but from 2 to 4 oz. for 1d.; *liniments*, according to cost of ingredients and bottle, with a profit added of from 10 to 15 per cent; *pills*, 3d. a dozen when prepared according to prescription, for stock pills such as Blaud's and pil. aperients this price may be modified; *poultices*, 4d. a dozen. In all cases costly ingredients justify extra charges. The methods which have been proposed in the *C. & D.* for

the dispensing tariff under the National Insurance Bill may be usefully studied in this connection, the basis in these cases being the cost of the ingredients, not the contract prices outlined above.

W. E. B. (201/73).—SPIRIT GUM FOR THEATRICAL USE:

Pale resin (dried)	1 oz.
Castor oil	15m
Bergamot oil	15m
Rectified spirit	5 oz.

Dissolve.

For a cheaper article methylated spirit is employed.

Subscriber (205/66).—Your customer needs the Salvarsan treatment, and he should apply to a hospital for it. Otherwise we cannot advise, and you should not undertake the case.

A. J. C. (187/1).—INCONTINENCE OF URINE AND FÆCES.—As this has followed an operation for spina bifida in a child of four, the nerve-tracts involved in the propagation of impulses controlling the urine and fæces have apparently been interfered with. The case should be submitted to a nerve specialist. The nerves have been tied up in the scar, in which case the question of further operation might have to be considered.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," November 15, 1861.

The Right of Chemists and Druggists to Prescribe.

Fifty years ago the retail drug trade of England was much agitated about this matter, and THE CHEMIST AND DRUGGIST had the following questions submitted to eminent counsel:

"1. Has a chemist, etc., a right to mix up at his shop, for a patient, a medicine which the chemist considers fit and proper for the case?"

"2. May he, if sent for, attend a patient for that purpose?"

"3. In either case, is he entitled to recover the value of his medicines if he supply the same on credit?"

"4. Is there any criminal liability attaching to a chemist, etc., who in dispensing medicine to a casual customer, commits an error through ignorance of the patient's constitution; if the disorder, which the regular medical attendant of the patient might have alleviated, prove fatal through want of knowledge on the part of the chemist of previous symptoms of the particular case?"

The following opinion was received on these points:

"1. I am of opinion that a chemist may, in his shop, so far prescribe for a customer as to advise with him as to the nature and quality and mode of application of the medicines which he is about to sell, and also as to which of his commodities will best suit the requirements of his customer. He may listen to his customer's statements as to the reasons for his wishing to become a purchaser, and may suggest to and advise him as to which of his commodities will be most suitable and beneficial to the customer, or may dissuade him from purchasing or taking that which a customer in his ignorance may have applied for. This advice is merely incidental to the sale and dispensation of the chemist's wares and drugs, and cannot, of course, be made the subject of a charge.

"2. I should say that in no case can a chemist attend upon a patient or customer at the house of the latter for the purpose of giving him advice or of seeing him, so as to be able to form an opinion as to the mode in which the chemist should prescribe for or supply his patient with medicines. Of course, a chemist may go to his customer's house to take an order for specific goods from the customer, if the latter send for him, he being too unwell to go out, just as any other tradesman may do.

"3. In either case a chemist may, of course, recover for goods sold by him on credit; he is no more compelled to deal for ready money only than is any other tradesman. But, in all cases, the chemist must be simply a 'vendor of his goods,' in no way seeking to make a profit by the advice or recommendation given by him. It seems to me, upon the whole, that the system which is called 'counter practice' is perfectly legal.

"4. I am of opinion that a chemist who does no more than what I have suggested he may legally do is no more liable to criminal proceedings than is any other practitioner. He makes no professions, does not hold himself out in a false position, and if he acts *bona fide* with ordinary skill and ability, not being guilty of gross negligence, he stands in about the same position as any other medical practitioner. I have not thought it necessary to cite any authorities; but I believe the history of all the professions, and all the cases on the subject, are collected and referred to in 'The Attorney-General v. The Royal College of Physicians,' 30 Law J., Chanc. 757.

"2 Essex Court, Temple, November 12, 1861."

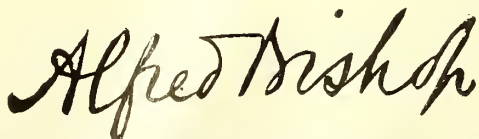
TOMPSON CHITTY.

Two False Statements.

We wish to contradict most emphatically the rumour that we are selling our business to one of our competitors. This statement is absolutely false. We have no intention whatever of selling our business to anyone. No one but the members of our family have ever had any share or interest whatever in our business. The directors, Messrs. Walter Bishop and Alfred Bishop, have carried on the business since the death of the founder, Mr. Alfred Bishop in 1886, and intend to continue carrying it on in future, and to give as always their personal attention to every detail.

It is also stated that we have acquired a second factory in the East End of London and are making there Magnesia and Salines of cheap quality. This statement is also entirely and absolutely without any foundation whatever.

ALFRED BISHOP, LIMITED.

A handwritten signature in dark ink, reading "Alfred Bishop". The script is fluid and cursive, with the first letters of "Alfred" and "Bishop" being capitalized and prominent.

Managing Director.

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Mint, Rose, Lemon or Menthol Flavour.

In amber bottles, each 50 tablets, 5/6 per doz. In bulk 3/- per lb.

*QUININE & CINNAMON OIL PERLES.

Each containing: Quinine Sulph. gr. i. and Ol. Cinnamon. B.P. IIIj. In fancy decorated tins, each 24 Perles, 6/6 per doz. Minimum retail 1/- per box.

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Twenty-four capsules each containing the equivalent of 60 m Tr. Ammon. Quin. B.P. packed in neat decorated tins for the pocket. 6/- per doz. Minimum retail 1/- per box.

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In bulk, 16 per lb., free tins. In glass show jars, each 6 lbs., 10/- inclusive. 1 oz. tins 1/10 doz. 2 oz. tins 3/8 doz. 4 oz. tins 6/6 doz.

*PLATYPUS BRAND OIL OF EUCALYPTUS GLOBULUS.

5 lb. tins 2/3 lb.; 10 lb. tins 2/2 lb.; 25 lb. tins 2/- lb. 3d. bottles 1/8 doz. 6d. bottles in cartons 3/8 doz. 1/- bottles in cartons 7/4 doz.

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OMAR KHAYYAM,

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OUR ADVERTISING sells the first bottle for you, it will also direct the public in your district to you if your name appears. We invite your co-operation as speedily as possible as we are now preparing the list of chemists.

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5/-	40/-
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21/-	168/-
42/-	336/-
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3 9	30/-

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Bismuth, P.B., Carb., 7 lbs. @ 8/10 lb.; 3 lbs. @ 9/1 lb.; 1 lb. @ 9/3 lb.; subnit., 1/- lb. less.

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Ext. Maltic. Ol. Jecoris, 10 lbs. @ 5 1/4 d. lb.
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Ext. Opii Solid, P.B., 1 lb. @ 52 1/2 lb.
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Potas. Bicarb. pulv., 1 cwt. @ 32/6 cwt.; 7 lbs. @ 4d. lb.

Potas. Brom. P.B., 1 cwt. @ 1/4 lb.; 28 lbs. @ 1/4 1/2 lb.; 7 lbs. @ 1/6 lb. [5d. lb.]

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Potas. Iod. P.B., 1 cwt. @ 7/9 lb.; 14 lbs. @ 7/10 lb.; 3 lbs. @ 7/11 lb.

Potas. Metabisulph., 1 cwt. @ 42/6 cwt.; 7 lbs. @ 6d. lb.

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Quinine Ethyl Carb. (Tasteless), 100 oz. @ 1/9 oz.; 10 oz. @ 2/2 oz.

Quinine Hydrobromas or Salicylate, B.P., 100 oz. @ 11 1/4 d. oz.; 25 oz. @ 1/0 1/2 oz.; 10 oz. @ 1/2 oz.

Quinine Hydrochlor. B.P., 100 oz. @ 11 1/4 d. oz.; 25 oz. @ 11 1/4 d. oz.; 10 oz. @ 1/1 oz.

Quinine Sulph. B.P., 100 oz. @ 11 1/4 d. oz.; 25 oz. @ 7 1/4 d. oz.; 10 oz. @ 8d. oz.

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*Chlorodyne, 5 lbs. @ 1/11 lb.

*Chloroform, pure B.P., 12 8-lbs. @ 1/7 1/4 d. lb.; 8 lbs. @ 1/8 1/2 lb.; 6 1-lb. bottles, @ 1/10 1/2 lb.

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Ext. Filicis Liq., P.B., 9 lbs. @ 4/10 lb.; 1 lb. @ 5/1 lb.

Ext. Gent., P.B., Solid, 1 cwt. @ 9 1/4 d. lb.; 7 lbs. @ 10 1/4 d. lb.

*Ext. Glycyrrh. Liq., B.P., 6 lbs. @ 1/4 1/2 lb.

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Mag. Sulph., fine druggists', B.P., 1 cwt. @ 6/- cwt.

*Mist. Sennæ Comp. B.P., 20 lbs. @ 6 1/4 d. lb.

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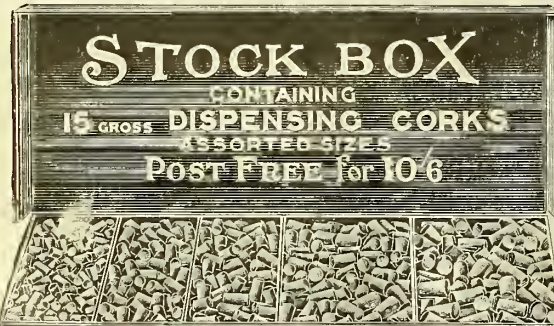
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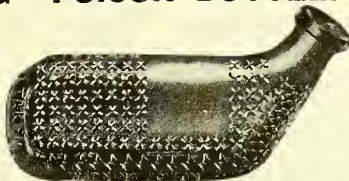
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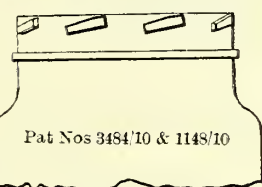
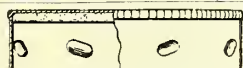


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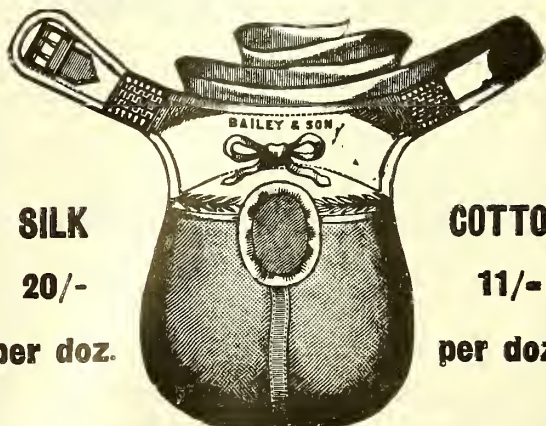


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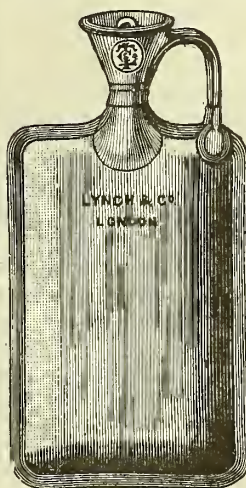
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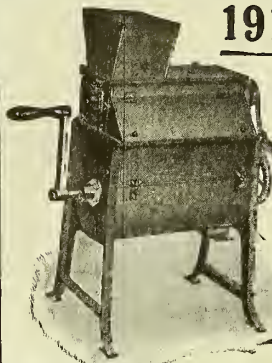
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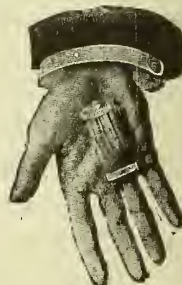
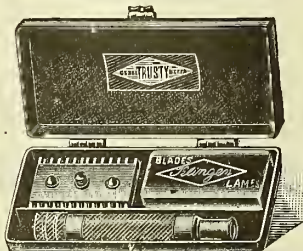
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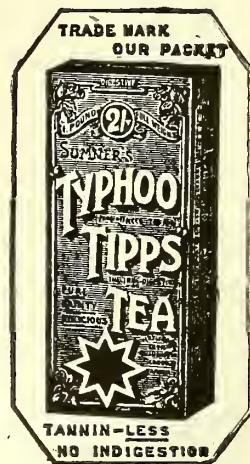
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WITH

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In the High Court of Justice,

CHANCERY DIVISION.

Before MR. JUSTICE COZENS-HARDY.

Between ASHTON & PARSONS, LIMITED,

Proprietors of "Phosferine" (Plaintiffs)

AND

FREDERICK JOHN FOWLES (Defendant).

A PERPETUAL INJUNCTION with damages and costs was granted on the 14th December, 1900, restraining the above-named Defendant, his servants and agents from in any manner infringing the Plaintiffs' Registered Trade Mark, 6,630, and from selling or offering or exposing or advertising for sale or procuring to be sold any medical preparation not prepared by the Plaintiffs under the name of "Phosferine" or under any other name which by colourable imitation of the Plaintiffs' word "Phosferine" or otherwise was calculated to represent or lead to the belief that such preparation is "Phosferine" or is a preparation of the Plaintiffs, and from selling or supplying any such preparation as aforesaid in response to orders for "Phosferine" or for a preparation of the Plaintiffs or from otherwise passing off or enabling or assisting others to pass off any such preparation as aforesaid as or for "Phosferine" or a preparation of the Plaintiffs.

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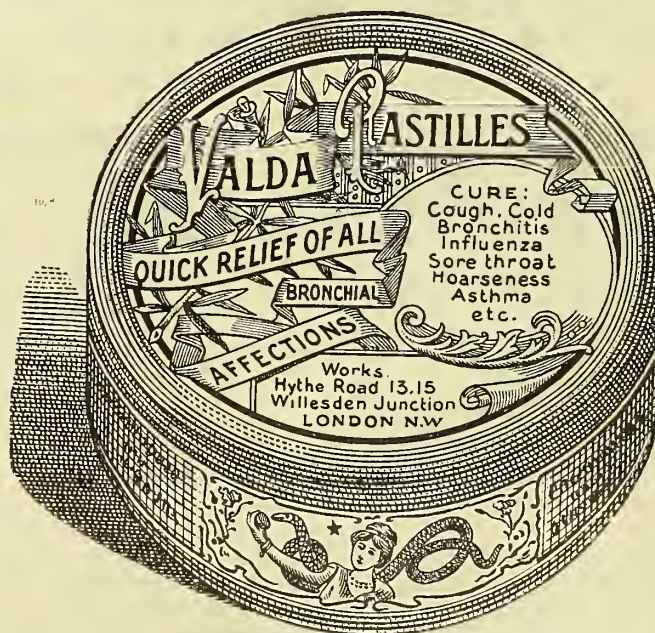
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OFFICE: 42 CANNON STREET, E.C.

SATURDAY, NOVEMBER 4, 1911.

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers) and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done.

PROVIDED the MONEY is TELEGRAPHED at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 852 Bank (two lines). Telegraphic Address: "Chemicus London."

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in this Supplement.

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1.—LONDON, W.—Good-class Business, Retail and Dispensing; returns average £864 per annum, and the *net profit* £350; lock-up Pharmacy, fitted in solid mahogany; rent moderate, held on lease; price £600; ill-health cause of sale.

2.—LONDON, S.W.—Very old-established Business, held by vendor upwards of 30 years; returns last year £750; *gross profit* £275; roomy house; rent £62; held on lease; price £500.

3.—LONDON, S.E. (Residential Suburb).—Middle-class Business, chiefly ready money; returns between £950 and £1,000 per annum; *net profit* £300; attractive shop, well fitted and stocked; price £775.

4.—CRYSTAL PALACE (near).—Good middle-class Business, situate in residential locality; returns under manager about £1,100; scope for development; further details on application.

5.—LONDON, W. (suburban).—General Retail, including Optical and Photographic; gross receipts average about £900 per annum; *profit (net)* £230; full investigation invited; price £550, about the value of stock and fixtures.

6.—LONDON, S.W.—Modern Pharmacy; position unique; returns about £1,100 per annum; *net profit* £350; lock-up shop; held on lease; price £900.

7. LONDON, E.C.—Modern Pharmacy; returns £736; *gross profit* 40 per cent.; single-fronted shop, attractive; stock and fixtures estimated at £465; price, to include goodwill, etc., £500.

8.—DORSET (Health Resort).—Well-appointed Pharmacy, fitted by Maw; returns £770; *profits above the average of Retail trade*;

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9.—LANCS.—Retail and Dispensing Business; established 80 years, and held by vendor 37; returns about £1,100; *net profit* £280; handsome shop, fully stocked; further details on application.

10.—GUILDFORD (within easy distance of).—Very old-established Business, Retail and Agricultural; returns between £350 and £400 per annum; roomy house, with stabling attached; rent £35 (sub-let about £20); terms, valuation of stock and fixtures.

11.—LANCS. (large town).—General Retail Business; returns increase yearly, last year being £485; net income £160; corner shop, double-fronted; modern house; rent £45; no near opposition; price £200; part payment if desired.

12.—SUSSEX.—Unopposed Business (Mixed); established 70 years and held by vendor 15; returns average £900, which produce a net income of £320 per annum; well-appointed shop, with good house attached; terms, goodwill £100, stock and fixtures at a fair valuation.

13.—DORSET (Market Town).—Good-class Business, chiefly ready money; returns over £800 per annum, increasing; comfortable residence, garden; rent moderate; price, to include goodwill, stock, and fixtures, £600.

14.—SOMERSET.—Retail and Dispensing Business, capitably situate in centre of town; present returns between £30 and £40 per week; rent £67 yearly; held on lease; to effect a speedy transfer vendor will accept £100 and valuation of stock and fixtures.

Particulars of any of the above will be furnished on application.

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- 7.—CARDIFF.—Returns £500; net profit £125; valuation £150.
- 8.—LONDON, N.—Returns £1,050; net profit £250; price £450.
- 9.—BIRMINGHAM (8 miles from centre).—Good-class Retail in very nice locality; returns £800; net profit £200; valuation £475; very soundly established.
- 10.—LEICESTERSHIRE.—Good-class Retail, in good position of nice town; returns £800; net profit £200; price £580, or a near offer accepted; good house.
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We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcement is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

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- 3.—SURREY.—Good middle-class Retail Business, steadily increasing; present returns average over £900; excellent profits; central position; good residential district; price £700.
- 4.—YORKS (East Riding).—Unopposed Mixed Country Retail with Wines and Spirits; returns £650; scope for doing £20 a week in energetic hands; well-fitted and fully stocked; price £325, less than valuation.
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- 6.—LIVERPOOL.—Sound Light Retail; returns about £500; no side-lines; net profit £160; good house and large shop; stock and fixtures worth fully £250; price £200; part can remain.
- 7.—WIMBLEDON.—Light Retail and Dispensing; returns £800; net profit £200; good position; price £550, or offer.
- 8.—LONDON, N.—Good-class Business; returns £750; net profit £248; books properly kept; price £350 or valuation.

9.—DORSET.—Profitable Light Retail and Prescribing Business, with some Dentistry; returns £670; net profit £290; increasing; good house; low rent; price £600.

10.—HAMPSHIRE.—Sound Light Country Retail Business; returns over £500 under manager; low rent; nice house and garden; modern-fitted shop, fully stocked; price about £400.

11.—KENT.—Old-established Light Retail; has done £1,000; returns under manager £650; net profit £220; plenty of scope; good premises; low rent; price £500, or offer.

12.—BOURNEMOUTH.—High-class Dispensing Business, in splendid position; returns over £700 at best prices; plenty of scope; price £350, or first reasonable offer.

13.—MIDLANDS.—Good-class Light Country Retail; returns £500; net profit £190; no opposition; low rent; stock and fixtures worth £240; price £250.

14.—RICHMOND (near).—Good-class Retail and Dispensing; returns over £1,000; net profit £300; fully stocked; price £675.

15.—LONDON, N.W.—Light Retail and Dispensing; returns about £950; good house; low rent; well stocked; price £625.

16.—SOUTH KENSINGTON.—Good-class Retail and Dispensing; returns about £1,100; net profit £345; price £900.

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WEST MIDDLESEX (few miles out).—Genuine Light suburban Retail Business, main road; increasing district; returns over £800; modern, double-fronted shop, well fitted, good stock; price £375, or valuation terms; open to fullest investigation. Address 255/26, Office of this Paper.

YORKSHIRE.—High-class Dispensing and Light Retail Business for Disposal; central position; some valuable Proprietaries included; particulars to intending purchasers. Apply, 250/34, Office of this Paper.

YORKSHIRE (West Riding).—Genuine unopposed Business in a large mining village; population between 4,000 and 5,000; averages £12 to £13 weekly; opening for Optics and Dentistry; man with a little capital could very much increase; well worth £500; will accept £420 for a quick sale; no agents. Apply 255/7, Office of this Paper.

An opportunity occurs for two smart young men to acquire upon advantageous terms a small but increasing Wholesale Packed Goods and General Drug and Sundry Business in the West of England; capital required £2,000; part could remain on; good reasons for selling; only gentlemen with the necessary capital need apply; no agents. "W." (253/29), Office of this Paper.

CASH Drug Store.—W. — Genuine old-established Business in thickly populated working-class neighbourhood; owner retiring after 14 years' successful occupation; shop and 6 rooms; rent £40; lease; price £80. "W. R." (256/26), Office of this Paper.

DRUGGIST.—Growing and profitable Business in rapidly increasing industrial centre in West of Scotland for Disposal owing to the proprietor's time being fully occupied with his practice; turnover, almost exclusively drugs, £650; capable of great expansion under good management; rental £28; small premium required and stock and fittings at valuation. Apply, in the first instance, to Cockburn & Co., Ltd., 150 Howard Street, Glasgow.

FOR early Disposal, in manufacturing town, Birmingham district, nucleus of Light Retail Business; suit a smart young beginner to develop on modern lines; low rent; vendor giving up, will accept very small sum. 252/5, Office of this Paper.

GENUINE Cash Business (Branch) for Sale in suburb of Manchester; turnover £500; established 25 years; corner shop; rent £38; suit qualified or unqualified; price £200; satisfactory reasons for sale. Apply "M.P.S." (254/3), Office of this Paper.

GOOD-CLASS Dispensing Business for Sale in residential quarter of York; old-established corner shop; 32 years in hands of present proprietor, who is retiring in consequence of ill-health; price low, about £200. Apply "Business," c/o Raimes & Co., Wholesale Druggists, York.

ILL-HEALTH.—Excellent Business; charming locality; well stocked, handsomely fitted Pharmacy; good prices; most exceptional Proprietaries, showing income apart from ordinary business, which comprises high-class Family and Dispensing; unusual conveniences; scope for unlimited increase; Optics to develop; splendid house, warehouse, etc.; easily made lock-up shop if preferred. "Urgent" (247/22), Office of this Paper.

£125 or valuation; must be sold, owing to unforeseen circumstances; snug Retail; returns about £600; net profit £150; stock consists of Drugs £85, Perfumes £25, Patents and Sundries £80, Fixtures £80; good house; low rent; South Coast. Wright, Malaga, Bushwood, Leytonstone.

£120.—A bargain; good sound little Business in working-class neighbourhood near London; cash trade; good reasons for disposal; quick sale. Apply, 257/1, Office of this Paper.

£65 will buy a well-stocked, well-fitted Cash Drug Store in a thickly populated suburban district; no immediate opposition; Light Retail, Dispensing, Prescribing, Extracting, Photographic, etc.; suit qualified or unqualified; owner unwell and not able to attend to it. 253/2, Office of this Paper.

Small Dental Practice; rooms over Chemist's business; Southern County; suit registered or unregistered man; moderate rent; lease. "Dental" (253/1), Office of this Paper.

TO LET.

EALING.—Handsome and spacious Business Premises to be Let, suitable for all trades; situate in the centre of the town; excellent living accommodation over, comprising 4 bedrooms, bath (h. & c.), large reception-room, kitchen and offices; spacious shop, frontage 17 ft., depth 40 ft.; large and well-lighted cellar in basement; rents only £75 per annum. For further particulars and orders to view apply to the sole Agents, J. Griffin & Son, Estate Agents, Ealing. Telephone 6 Ealing.

EASTBOURNE.—Shop and Dwelling-house to be Let on lease, £125; next door to Town Hall; was for many years a Chemist's business. Apply, G. & R. Lavis, Eastbourne.

SHREWSBURY.—To Chemists.—Smart lock-up Shop to Let, in excellent business thoroughfare; splendid opportunity for doing a good-class cash trade; rent £40; immediate possession. Apply, J. K. Morris, 1 Port Hill Gardens, Shrewsbury.

EXCELLENT site in the City of London for a Chemist's Business; low rental; no opposition. Apply 251/16, Office of this Paper.

SPLENDID CASH OPENING.—Shop and House Premises, lately occupied by first-class firm doing successful cash trade, leading Liverpool thoroughfare, densely populated, now to Let; lease only to reliable, responsible firm, up-to-date methods; principals only. Address, first instance, Bottley & Sharp, Solicitors, 104 Colmore Row, Birmingham.

TO Chemists.—Well-positioned Shop on main thoroughfare, near Cammell Laird's large shipyards; special terms for lease granted to enterprising tenants. Apply, Hughes & Jones, 1 Hamilton Square, Birkenhead. Tel. 156/157.

TO be Let, an old-established Herb and Drug Business; small capital required. Apply, Surgical Hosiery Co., Ltd., Russell Street, Nottingham.

PARTNERSHIPS.

ADVERTISER (young), just disposed of his business; 8 years' West-End experience, desires interest (view to succession) in good-class business where his ability and energy could be useful; with elderly man or Wholesale not objected to; can invest some capital. "Phenazone," c/o The Strand Chemical Co., 22 Ely Place, Holborn, W.C.

MANAGING Partner (qualified) wanted for a Cash business with good turnover in the North of England; only energetic men and those who have had an all-round experience need apply; a good opportunity for a smart man with small capital securing a really sound Business; owner retiring next year. State age, experience, references, and amount of capital at command. Apply "Aurum" (253/73), Office of this Paper.

WANTED, a first-class Pharmacist, with small capital, as Partner to open high-class City Pharmacy; excellent site procured; replies strictly confidential. Apply, 251/17, Office of this Paper.

SITUATIONS OPEN

* 3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an Additional charge of 6d.

EMBARRASSED BY NUMBERS.

"I feel I must write you a line to testify to the value of the C. & D. Supplement as an advertising medium. I had 47 (forty-seven) replies to my ad. for a branch manager in last week's issue, and the great difficulty has been to make a choice from so large a number. I hope I have chosen the right one." (214/53.)

RETAIL.

BEXHILL.—Junior Assistant wanted November 28 (indoors) for high-class Dispensing business. Please give full particulars of experience, age, height, salary required, and send photo, Robbins, Pharmacist.

BUSINESSES WANTED.

WANTED, a good-class Cash Business in busy neighbourhood with scope for increase; good house; or lock-up Shop not objected to; capital at command; must bear fullest investigation; returns from about £1,200 to £1,800. Full particulars to "Statim" (254/13), Office of this Paper.

AGENCIES.

INDIA.—Travelling Representative, leaving shortly for extended tour through all business centres of that country, wishes Speciality houses to join with present firms; terms, share of expenses and commission; guarantees and good references; good opportunity for firms wishing introduction to Indian market. 242/2, Office of this Paper.

INDIA.—Advertiser, 20 years' experience in the East, is open to act as Managing Representative in India for first-class firm Manufacturing Chemicals, Pharmaceutical Preparations, or Drug-trade specialities, other than Disinfectants; terms would include power of attorney to act for the firm, monthly allowance plus commission, and contribution towards office, etc., expenses. Address, 191/33, Office of this Paper.

SOUTH AFRICA.—The advertiser, well recommended and with a thorough knowledge of the trade and country, seeks sole South African Managership-Agency to first-class Proprietary Medicine firm; active, energetic worker, with good testimonials. Reply, "R. R." (257/11), Office of this Paper.

AGENT, at present calling in principal towns in Ireland, and with lengthened experience, is open for additional Agencies in Toilet Soaps or Packed Specialities. Reply to 253/11, Office of this Paper.

AGENTS for Toilet Soap, calling on Chemists only, wanted at once; Northern, Midland, and Eastern Counties; Specialities only. Send fullest particulars to Chrstr. Thomas & Bros., Ltd., Broad Plain Soapworks, Bristol.

PERMANENTLY remunerative Side-line Agency and exclusive territory on commission offered Traveller with established connection amongst Chemists; article is quite new, wanted in every home, and will be well advertised. Write, 232/31, Office of this Paper.

TRAVELLER, representing well-known Proprietary firm, wide and sound connection with best Chemists, Grocers, Stores, etc., in Lancashire and Yorkshire, wishes additional non-competing Agency. Address, Box 106, Wheeler's Advertising Agency, Manchester.

TRAVELLERS and Agents wanted to take up as a Side-line the sale of our Liquorice on a commission basis; same is advertised amongst all the Chemists in the United Kingdom, and therefore only requires following up; small pocket sample; high commission; season now commencing. Russian Liquorice Works, Uralsk, Muswell Hill, London, N.

BOARD AND RESIDENCE.

COMFORTABLE Diggings for one or two gentlemen; use of sitting-room, piano, etc.; electric light; every convenience; terms very moderate. "T." 31 Whellock Road, Chiswick, W.

BIRMINGHAM.—Part-time Assistant required, principally for evening work; clean Cash Retail business; suit Student. B. H. Powell, 395 Dudley Road, Birmingham.

BROADSTAIRS.—A Junior Assistant required; must be a reliable Dispenser and a good Counterman, with some knowledge of amateur Photography; outdoors; weekly half-holiday. State salary, enclose photo, Julian Horrell & Co., The Pharmacy, Broadstairs.

BROADSTAIRS.—Smart Junior; all-round experience, Photography essential. State age, height, salary required (outdoors), give full details in first letter, together with where to apply for references, photo (which will be returned), Walton, Pharmacist, Broadstairs.

BRISTOL.—A Junior Assistant, accustomed to a good-class Dispensing business, wanted November 27; outdoors. Apply, with full particulars, Buxton & Grant, 176 Whiteladies Road.

CHELTHENHAM.—Senior Assistant, 28-30, for good-class Dispensing and Photographic business; indoors; half-holiday weekly; reliable Dispenser; good appearance. Please send full particulars and recent photograph to Beetham & Clark, Cheltenham.

CROMER.—Qualified Assistant of good address required for a small high-class Dispensing and Light Retail Seaside business; duties very light; no heavy trade; first-class references essential. State full particulars and salary required (outdoors or indoors), D. Davison, Pharmacist, Cromer.

HARROGATE.—Wanted, qualified Assistant, accustomed to a good-class Dispensing business; indoors. Apply, stating age, height, references, experience, and salary required, to A. B. Payton, Crown Pharmacy, Harrogate.

INLAND Health Resort.—Wanted, unqualified Assistant, of good experience, capable of taking charge in principal's absence; must be accustomed to a high-class Dispensing business; indoors; permanent situation if suitable. Apply, "Chemists" (250/35), Office of this Paper.

LIVERPOOL District.—Manager, qualified, for Branch: must be energetic and have business ability; good Window-dresser and knowledge of Photography essential; references must bear strictest investigation. State full particulars to "G. S. L." c/o Messrs. John Thompson, Ltd., 58 Hanover Street, Liverpool.

LONDON, S.E.—Competent Junior Assistant required for a brisk Store trade; salary 30s. weekly (outdoors); easy hours. Apply, with full particulars, stating age, height, and references, to 251/28, Office of this Paper.

LONDON, W.—Qualified male, unmarried Assistant, with good London experience in Dispensing and Retail; board out, sleep in; age 24. Apply personally, if by post stating age, experience, salary required, references, when disengaged, to R. A. Potts, 62 South Audley Street London, W.

LONDON, W.—Junior Assistant required by November 30; age about 22; outdoors. Apply, with full particulars, age, height, and salary required, to John F. Harrington, 15 Kensington High Street.

LONDON, S.W.—Junior for Light Retail and Dispensing business, with knowledge of Photography. Apply, with full particulars, to F. P. Ordish, Dispensing Chemist, 204 High Road, Balham, S.W.

LONDON, W.—Wanted, Junior Assistant, about November 8, for good-class Dispensing business; indoors; 2 employed; must be quick and good Stockkeeper; an excellent opportunity to gain Dispensing experience. State age, experience, and salary required, also reference, to J. W. Feltwell, 91 Hammersmith Road, West Kensington, W.

LONDON, S.E.—Qualified Assistant wanted (outdoors) for quick Cash Retail. State age, experience, and salary required, Brooks' Drug Stores, corner of High Street, Broadway, Deptford.

LONDON, N.W.—Wanted, qualified Assistant; outdoors; age about 23-25 years; must be a quick and accurate Dispenser and a good Salesman. Please state full particulars of experience and salary required, personal interview preferred; if letter enclose photo, T. F. Elton, 28 Endsleigh Gardens, N.W.

LONDON, N.W.—Wanted (indoors), unqualified Assistant for a permanency, for brisk Cash business; one whole day off duty weekly. Apply, R. R. Pratt, Pharmacist, 94 Canterbury Road, West Kilburn, N.W.

LONDON, W.—Experienced Assistant, with first-class Optical experience; salary and commission; half-day off weekly; Sunday duty every third, 6 to 8 p.m. Full particulars to E. F. Strickland, 28 Broadway, Faling, W.

LONDON, W.C.—Assistant, qualification unnecessary, for high-class Cash business; good Salesman, knowledge of Photography (including Developing); age not over 30; reasonable hours and no Sunday duty. Full particulars of experience and salary required, Manager, H. Lamplough, Ltd., 166 Strand.

LONDON, N.W.—Assistant wanted, partly indoors; 2 kept; experienced in Retail, Dispensing, and Photography. Apply, personally or by letter, to C. Coutts-Michie, 175 Kentish Town Road, N.W.

LONDON, S.W. Suburb.—An Assistant, about 30, single, energetic, qualified preferred, for good-class Dispensing and Retail; good all-round experience essential; knowledge of Photography; board out, sleep in. Apply, with full particulars, to 256/19, Office of this Paper.

LONDON, S.W. (near Schools).—Assistant (indoors) immediately, with good-class experience. State full particulars, with photo (to be returned), F. H. Glew, 156 Clapham Road, S.W.

LONDON, S.W.—Junior Assistant wanted for good-class Retail trade (outdoors). Apply, personally, to Lloyd, 125 St. John's Hill, Clapham Junction, S.W.

LONDON, W.C.—Young qualified Assistant required at once; must be a smart, intelligent Salesman. Apply, personally, Boutalls, Ltd., 150 Southampton Row, W.C.

MANCHESTER.—Improver (outdoors) required, accustomed to a good-class business; time and assistance given to study. Apply, with usual particulars, to J. E. Fletcher, Ph.C., Sedgley Park Pharmacy, Prestwich, near Manchester.

PARIS.—Qualified Assistant, with knowledge of French. State age, height, and salary (outdoors), "Dorvault" (256/41), Office of this Paper.

WEST RIDING (market town).—Assistant, qualified, about 24; easy hours; weekly half-holiday; no Sunday work; must possess highest references; state salary required, height, and photograph; one used to Agricultural business preferred. Gordon, 1 Belle Vue Avenue, Roundhay, Leeds.

WILLENHALL, Staffs.—Wanted, Junior or unqualified Assistant; single; outdoors; comfortable situation for reliable man. Apply, giving age, height, full particulars of experience, salary required, when at liberty, with references, to W. H. Walker, Chemist, Willenhall, Staffs.

YORKS' (Seaport Town).—Wanted, smart Assistant; one used to a quick Cash or Store trade; outdoors; young man preferred. Apply, with full particulars, and photo if possible, to 252/7, Office of this Paper.

RESULTS
OF ADVERTISING IN THIS SUPPLEMENT
LAST WEEK OCT 28 1911:
NATURE OF ADVT. REPLIES
UNQUAL. MAN 50
TRAVELLER NEW ZEALAND 31
Pharmacists as representatives in India 30
QUAL. MANAGER 27
LADY DISPENSER 27
QUAL. MANAGER 25

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed o/o this Office. The Publisher desires to make it clear that this is quite superfluous and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitability.

BE BRIEF BUT CLEAR—millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

SITUATIONS OPEN *(continued).*

A JUNIOR Assistant required for a Mixed Agricultural Country Business, with Dispensing, in a small town. In reply please state experience, references, and salary required, with photo (if convenient), to Gwilliam, Bishop's Castle, Shropshire.

JESSE WILLIAMS, Pharmaceutical Chemist, 132 Queen Street, Cardiff, requires immediately a smart Junior; outdoors; knowledge of Photography essential. Please state in first letter age, height, references, and wages, also whether married or single.

JUNIOR, unqualified, smart and active, for quick Cash trade; Photography; outdoors. Give age, height, references, to Freshney, Victoria Street, Grimsby (photo).

JUNIOR Assistant (outdoors) for good-class business in Surrey. Apply, with full particulars and photo, to Chapman, Chemist, Esher.

JUNIOR or Improver; comfortable berth (indoors) near London; ample time for reading; classes near. Full particulars, "Statim" (253/8), Office of this Paper.

MANAGER (qualified) for a business in the North of England; must have had a good all-round experience, good Counter-man; abstainer preferred; state age, height, salary, expected, and references, enclose photo; man wanting permanency or one with some capital with a view to succession entertained. "Vera" (253/37), Office of this Paper.

MARSON & SON, Stafford, require an active Junior Assistant for Family and Dispensing business. Give full particulars, stating age and salary, and enclose photo.

OUTDOORS, immediately, Welsh-speaking unqualified Assistant, over 30 years of age; Window-dresser and smart at Counter; knowledge of Optics preferred; must produce good references as to character; no idlers need apply. Morgan, Medical Hall, Cardigan.

QUALIFIED Assistant; age 24 to 28; knowledge of Photographic trade; indoors; comfortable quiet home; no children. Apply, with fullest particulars, enclosing photo, to "G. W. B.," British Drug Houses, Graham Street, E.

QUALIFIED Branch Manager required; half-day off; no Sunday duty; must be well recommended; only steady, up-to-date men need apply. Particulars to "Verax," c/o Heath Bros., Blackfriars, Manchester.

REQUIRED at once, Junior or Improver for good-class Retail and Dispensing business; indoors; good classes for students locally; some knowledge of Dispensing essential. To avoid delay state full particulars as to age, height, experience, and salary required, enclosing photo if possible, to Savage & Co., Pharmaceutical Chemists, Brighton.

UNQUALIFIED; smart, skilful Dental Operator and Mechanic; one requiring a permanency only; good prospects. Give full particulars, "Molar" (253/01), Office of this Paper.

WANTED, energetic and capable qualified Manager for business situate in the Midlands; very comfortable berth with interest in the profits for suitable man. State age and salary required, 218/34, Office of this Paper.

WANTED, smart Junior. Please give full particulars, Dean & Holt, Chemists and Opticians, 78 Yorkshire Street, Rochdale.

WANTED, by November 20, unqualified Assistant; good Dispenser and Counter-man; knowledge of Optics preferred; outdoors; good references; Senior and 3 Apprentices kept. State salary, Flanders, Mill Road, Cambridge.

WANTED immediately, in good-class district, an elderly Manager, to live in; comfortable home; light Retail work. Apply, with full particulars, to 250/26, Office of this Paper.

WANTED, Junior, qualified Assistant (indoors). Apply, with usual particulars, stating age, salary required, etc., to Coleman & Brown, Chemists, South Lowestoft.

WANTED, a competent unqualified Assistant. Apply, stating full particulars, salary, etc., Jacklin, Chemist, Hale, Cheshire. Applications not answered in 3 days declined.

WANTED, qualified Assistant, accustomed to Dispensing, General Retail, and country business; Senior kept; hours 9 to 8, except Saturdays; half-holiday on Thursdays; no Sunday duty. State age, salary (outdoors), experience, with references, Reade Bros. & Co., Ltd., Wolverhampton.

WANTED, elderly qualified Assistant; live in; comfortable berth; abstainer preferred. Apply, first instance, 256/34, Office of this Paper.

£250 per annum in return for investment of £300 offered to really energetic young man who is thoroughly capable and reliable; to Manage entirely light unopposed Country business; abstainer preferred; references must bear every investigation. Apply, with full particulars, to 250/16, Office of this Paper.

WHOLESALE.

A LONDON firm have a vacancy for a youth with Retail experience who is desirous of entering the Wholesale with a view of Travelling. "Myrrh" (216/7), Office of this Paper.

CAPSULE Makers.—Wanted, 2 or 3 Junior hands in Capsule Factory; preference given to applicants who have been employed entirely in the Manufacture of hand-made Capsules. Apply, stating age, experience, and wages required, to The Standard Tablet & Pill Co., Hove.

INVOICE Clerk wanted; must be good Penman, quick and accurate at figures, and experienced in Export Invoicing. Reply, stating full details of experience and credentials, to C. R. Harker, Stagg & Morgan, Ltd., Devon Wharf, Emmott Street, Mile End, E.

JUNIOR Warehouseman wanted; must have had previous experience of Receiving and Despatching goods, including collecting, checking, and consigning same. Reply, with full particulars, to C. R. Harker, Stagg & Morgan, Ltd., Devon Wharf, Emmott Street, Mile End, E.

JUNIOR Assistant for Instrument Room, with a knowledge of Surgical Instruments. Sumner & Co., Ltd., 50a Lord Street, Liverpool.

LADY Assistant required; Hall qualification; knowledge of Metric System, French, and preferably German essential; age between 23 and 25. Apply, enclosing photograph, stating salary and experience, to 218/29, Office of this Paper.

PILL Mass.—Young man required at once for London house, experienced in Manufacturing above. Apply, stating experience, etc., "A. B. C." (248/20), Office of this Paper.

TRAVELLERS, who have an established connection with Retail Chemists, wanted on salary and commission. Reply, sending copies of references, with full particulars, to 253/6, Office of this Paper.

WANTED, smart Travellers calling on Chemists, etc., to sell on commission as a side-line an article in which a large business can be done. Apply, The Rozeau Co., 1 Batchelor Street, Liverpool.

SITUATIONS OPEN

(Colonial, Indian, and Foreign).

3s. 6d. for 50 words or less; **6d.** for every 10 words or less beyond, prepaid. Replies addressed to this office will be forwarded to the advertiser for an additional charge of **6d.**

INDIA.—Unqualified Chemist wanted; pushing Retail Salesman with a good-class experience; 4 years' agreement; salary first year 150 rupees per month, second year 175 rupees per month, third year 200 rupees per month, fourth year 240 rupees per month; second-class passage paid out. 218/30, Office of this Paper.

RANGOON.—Assistant required, age about 25 to 30; Minor qualifications; 4 years' agreement; salary first year 250 rupees per month, rising by 25 rupees per month annually to 325 rupees; passage paid. Apply, stating full particulars as to experience, etc., to Indo Burma Co., Ltd., 108 Wool Exchange, E.C.

RIVIERA.—Assistant for Season, about 35 years of age; qualification not essential. Give particulars, age, height, salary, enclose photo (to be returned), Metcalfe, Pharmacie Rondet, Cannes.

SOUTH AFRICA.—Required immediately, 2 qualified Assistants for important towns, age about 24 years, with good Dispensing experience; 3 years' agreement; second-class passage paid; salary first year £17 per month, second £18, third £19; total abstainers preferred. Apply by letter, with photograph, "F. J. G.," c/o C. J. Hewlett & Son, Ltd., 35/42 Charlotte Street, London, E.C.

SOUTH AFRICA.—Qualified Assistant, unmarried, required for a Coast town, about 26 years of age preferred; 3 years' agreement; passage paid out; salary £204 first year, £216 second year, £228 third year (outdoors). Apply, by letter only, "L.," 14 Lafone Street, London, S.E.

SOUTH AFRICA.—Qualified Assistant, thoroughly reliable, with highest references; abstainer preferred; £21, £22, £23 monthly respectively; 3 years' agreement; passage paid; send photo, with full record; state whether knowledge of Photographic and Optical work. Address, "L. O.," c/o G. Street & Co., Cornhill, London.

SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an Additional charge of 6d.

[HOME]. RETAIL.

RELIEF; qualified; City experience; afternoons. "D.," 28a Cato Road, Clapham, S.W.

JUNIOR or Improver; 20; 5 years' experience. Patchett, 6 Livingstone Street, Leeds.

LONDON.—Pharmacist disengaged 2 evenings weekly; reliable. 7 Braydon Road, Stamford Hill.

SATURDAY help; disengaged; highest references; all-round experience. 248/11, Office of this Paper.

MANAGER; qualified; competent and reliable, with all-round experience. 250/23, Office of this Paper.

LADY desires position; experience, Counter, Stock, Books, Photography. "Genuine," 14 Mall, Faversham.

QUALIFIED; Assistant or Manager; outdoors; 34; best references. "Statim," Newlands, Barnard Castle.

DISPENSER-BOOKKEEPER; thoroughly experienced; good references. Stuart, 3 Friary Road, Newark.

LOCUM; qualified; first-class references; London or near preferred; disengaged. 252/10, Office of this Paper.

JUNIOR; age 21½; height 5 ft. 10 in.; 4 years' experience; Photography; outdoors. 252/15, Office of this Paper.

MANAGER; experienced; qualified; married; disengaged; permanency; excellent references. 248/31, Office of this Paper.

MANAGER; qualified; good Counterman and Dispenser, also Prescriber. "Domus," 3 Yattendon Road, Horley, Surrey.

SCOTSMAN (24), qualified, experienced, wishes situation with up-to-date firm; London preferred. 253/16, Office of this Paper.

QUALIFIED Lady Dispenser (Minor); London; good Doctor and Institution experience and testimonials. 248/21, Office of this Paper.

LOCUM; qualified; experienced; age 38; good references; abstainer; disengaged. "East Anglia" (253/19), Office of this Paper.

LADY, with 4 years' experience in a Pharmacy and Apothecaries' Hall certificate, requires situation as Dispenser. 248/17, Office of this Paper.

UNQUALIFIED; 25; 5 ft. 8½ in.; over 10 years' good Dispensing experience; splendid references. "Statim" (253/28), Office of this Paper.

JUNIOR (21) seeks berth; unqualified; 5 years' experience. Stores and West End; good references. "B.," 88 Shacklewell Lane, Dalston.

MANAGER; qualified; married; town or country; good Prescriber and Counterman; best references. "H.," 351 Fulham Palace Road, S.W.

PHARMACIST (woman), good Dispenser, general experience, wishes post. M. Dunlop, M.P.S., 23 Maitland Street, Dunfermline, Fifeshire.

QUALIFIED; 24; height 5 ft. 9 in.; permanency or temporary; good experience; excellent references; disengaged. 250/18, Office of this Paper.

LOCUM; 49; single; good Prescriber and Counterman; abstainer; unqualified; excellent references. "Aspirin," 5 Charles Street, Hillingdon, Middlesex.

ENGAGEMENT; 38; married; experienced Manager, London, etc.; good-class; unregistered. "Chemicus," 231 Whalley Road, Clayton-le-Moors.

MANAGER; qualified; 31; married; best all-round experience; provincial or country town preferred, with view to succession. 251/37, Office of this Paper.

ASSISTANT; 22; 6½ years' experience; good knowledge Photography; excellent references. "Reflex," 5 Hill Brow Road, Southbourne Road, Bournemouth.

BIRMINGHAM, Walsall, Wolverhampton, or Districts. — Part-time; unqualified; 10 years' experience, Dispensing, Photography. 250/21, Office of this Paper.

LONDON; unqualified; 22; experience general; last 3 years London, N.W.; recent testimonials; Dispensing; most willing; disengaged. Dillon, Gosberton House, Gosberton.

SENIOR or other responsible position; Major qualification; "Square" trained; 26; best West-End and provincial experience. Ridges, 13 Crawford Street, Wolverhampton.

QUALIFIED (28), tall, good general experience, reliable, desires position, preferably London and where insight into Optical work could be obtained. 248/19, Office of this Paper.

QUALIFIED; Manager or Assistant; 33; excellent references; good London and provincial experience; single; disengaged. "K.," c/o Mr. Thomas, Chemist, Wimbledon Park, S.W.

MANAGER; 41; tall; married; thoroughly capable; excellent all-round, up-to-date experience; good Counterman and Prescriber; Photographics. "Chemist" (253/39), Office of this Paper.

MANAGER; age 39; married; exceptional experience, West End, French, and provincial; first-class Counterman, excellent Window-dresser; 12 years present position manager. 248/39, Office of this Paper.

QUALIFIED; 22; permanency wanted; 6½ years' experience, Counter, Dispensing, Window-dressing, Photography; exceptional references. H. Levi, 76 Sussex Street, Lower Broughton, Manchester.

HAVING sold my business, am open to take temporary charge for one, two, or three months; qualified; abstainer; Optics, Photography; terms moderate. Apply "X. Y. Z." (253/18), Office of this Paper.

MANAGER; qualified; excellent all-round, up-to-date experience in all branches; good Prescriber and Extractor; disengaged owing to sale of business where last employed. "Manager," 2 Fleming Road, Newington.

SITUATIONS WANTED *(continued).*

LOCUM; qualified; middle-aged; varied experience. "C. L. S.," 104 Mill Road, Cambridge.

LOCUM; qualified; disengaged; 35; recommended by Maw's, etc. Furber, 5 Abbey View, Bath.

DISPENSER, Assistant, or Locum; good experience "Dispenser," 37 Parliament Street, Gloucester

ASSISTANT; unqualified; 21; Light Retail, Photographie, Extractor. Haworth, 26 Bela Grove, Blackpool.

QUALIFIED; permanency, Locum; 31; disengaged; references. "Manager," 210 St. George's Road, Bolton.

ASSISTANT; Mixed or otherwise; disengaged. David, c/o Phillips, 17 Golder's Gardens, Golder's Green, London.

PART-TIME; 3 days weekly or more if required. Write immediately, "Statim," 1 Burnley Road, Stockwell, S.W.

MANAGER, Locum; experienced; disengaged; moderate terms; references. "Chemist," 23 Bird's Avenue, Westgate-on-Sea.

JUNIOR; unqualified; London experience; Dispensing; outdoors preferred. Mathews, Elderslie, Waterloo Terrace, Carmarthen.

LOCUM, Manager, or Assistant; North and South experience; highest references. "Pharmacist," 50 Pen-y-Bryn, Wrexham.

QUALIFIED; 27; teetotal; Branch Manager or Assistant; Extractions; capable, obliging. "Salix," 1 Russell Road, Sefton Park, Liverpool.

AN elderly Chemist, qualified, is open to an engagement; short hours and moderate salary; or as Dispenser to a Surgeon; good Retail and Hospital experience. 62 Lynette Avenue, Clapham Common.

BRANCH Manager; qualified; 12 years' experience; exceptional references; thoroughly reliable. "P.," 37 Belvoir Street, Leicester.

NOTTINGHAM (or near).—Manager, Assistant; good experience; excellent references. "Calcium," c/o 140 Woodborough Road, Nottingham.

37 S. 6 D. weekly; outdoors; permanency; 34; single; unqualified; abstainer; disengaged Monday. "Photog," 26 Maple Road, Surbiton, S.W.

MANAGER or temporary; disengaged; qualified; 30 years' experience; married; age 47; good experience. "Alpha," 3 Helena Avenue, Margate.

SENIOR or Manager; age 32; married; 18 years' good general experience; qualified; disengaged. "M.P.S.," 29 Church Avenue, East Sheen, S.W.

YOUNG Gent. requires berth. Birmingham district, as all-round Assistant, or Dispensing only; 8 years' experience. Apply to A. R. Jones, 43 Albion Road, Willenhall.

ASSISTANT desires berth; 25; single; outdoors; unqualified; highest references; good Dispensing and Photographie experience; permanency; 30s. week. "A.," 9 Regent Hill, Brighton.

LOCUM (43), qualified, desires engagement for winter months; disengaged November 15. Kemp, 2 Castle Green Villas, Hereford.

LONDON: mornings, afternoons; competent, experienced Assistant; disengaged. "Statim," 141 St. George's Road, Southwark.

WANTED at once, until Christmas, qualified; good Family and Dispensing experience. T. H. Fisher, Abbey Park Road, Grimsby.

PHARMACIST (37) seeks responsible position in the Retail; wide and best-class experience. "D.," "Butts Croft," Uckfield, Sussex.

ASSISTANT; 22; unqualified; 7 years' good all-round experience; abstainer; excellent references. Mr. A. Smith, 51 Culloden Street, Poplar, E.

JUNIOR (20), tall, 4 years' experience, desires situation in good-class business in large Northern town. Apply "R. W.," 74 Spencer Place, Leeds.

MANAGEMENT; outdoors, or live on premises; married. Rowland, 47 Upton Lane, Forest Gate.

ASSISTANT; 25; height 5 ft. 8 in.; good salesman. Alexander, 40 Sandwich Street, London, W.C.

DISPENSER, Doctor or Retail; good references. "Magnol," 3 Banister Road, North Kensington.

£1; Unqualified; experienced; trustworthy; tall and active. 77 Grosvenor Park Road, Walthamstow.

COMPETENT unqualified; 26; City experience; highest references. Jackson, 132 Riverdale Road, Plumstead.

QUALIFIED; 26; 11 years' experience, Dispensing, Counter, Photography. French, Chesterton Mills, Cambridge.

LONDON.—Qualified; 24; 5 ft. 8 in.; outdoors; 45s.; Retail, Dispensing; November 27. 255/38, Office of this Paper.

QUALIFIED; 26; abstainer; best-class all-round experience; London or Midlands; outdoors. 257/5, Office of this Paper.

ASSISTANT; unqualified; Dispenser; middle-aged; experienced; moderate salary. "Salix," 1 Heath Terrace, West Greenwich.

DISENGAGED; up-to-date in all branches; good experience and references. "C. A. R. U.," 6 St. George's Road, Ramsgate.

UNQUALIFIED; outdoors; competent; varied experience; age 40; London or suburbs preferred. 255/31, Office of this Paper.

IMMEDIATE.—Competent, experienced Salesman, Dispenser, Prescriber; in- or out-doors. "Fidelis," 75c Camberwell Station Road.

PHARMACIST; Dental, Office, and Workroom; wide experience; highest references; salary and commission. 256/17, Office of this Paper.

LOCUM or part-time; 25; experienced; well recommended; total abstainer; disengaged. Sandy, 18 Tyndale Place, Highbury, London, N.

ASSISTANT; good Dispenser, Counterman, and hard worker; well up; London or Suburbs; abstainer; 35; permanency; outdoors. "Salol," 62 Lanceot Road, Wembley, N.W.

M.P.S. (26), 5 ft. 10 in., as Senior or Manager; exceptional experience; Manchester preferred; moderate salary; disengaged November 25. Nuttall, 9 Kensington Place, London, W.

QUALIFIED; disengaged November 1; varied Retail and Dispensing experience; City or suburbs. Write Box 6819, Willing's, 125 Strand, W.C.

MANAGER, Locum, Assistant; qualified; exceptional experience; excellent references; reliable; disengaged. "Aspirin," 238 Derinton Road, Tooting, S.W.

UNQUALIFIED; 25; height 5 ft. 8 in.; 10 years' good Retail and Dispensing experience; disengaged. "Rhei," 260 Upper Street, Highbury, London, N.

ASSISTANT or Manager; experienced Retail; Dispensing, Prescriber, Extractor, Window-dresser; unqualified. "Salis," 64 Clarence Gardens, Regent's Park, N.W.

UNQUALIFIED Assistant; gentlemanly appearance and good address; reliable Dispenser; smart Counter hand and window-dresser; married; town or country. "Veneris," 24a Dartmouth Road, Forest Hill.

MANAGERSHIP; optional view to succession or part-time; responsible position in Wholesale or Retail; qualified; gentlemanly; 44; highest personal character; Manchester district preferred. 255/34, Office of this Paper.

JOHN EDWARDS, 20 Summerland Road, Minehead, desires engagement, Manager or Assistant, Dental Operator; varied experience; excellent references.

JUNIOR; 20; 5 ft. 11 in.; good Dispenser; passed Preliminary; 5 years' high-class Pharmacy experience. Carter, 44 St. Leonards Road, Bexhill-on-Sea.

ANY capacity; 37; qualified; temporary or permanent; best experience; abstainer; moderate salary; now disengaged. "Minor," 56 Ullswater Street, Liverpool.

YOUNG Lady requires post as Dispenser or Assistant; Hospital or Doctor; Apothecaries' Hall qualification. P. Lord, 10 Colosseum Terrace, Regent's Park, London.

SMART, capable, unqualified; well up in all branches; Retail, Dispensing, Photographic; excellent references. D. Longbottom, Beech House, Constable Burton, Yorks.

STUDENT (22), slight Retail experience, seeks position as Improver in or near London; small salary; sound reference. "Radix," 10 Gaisford Street, Kentish Town, N.W.

PART-TIME or full; qualified; 42; active; experienced Dispenser and Counterman; excellent credentials; terms moderate. "Chemist," 68 Dennington Park Road, West Hampstead.

ASSISTANT; experienced Branch Manager; unqualified; permanency desired; good references; married; no family; thoroughly reliable. "Statim," 21 Norwich Street, Cambridge.

ASSISTANT, Locum, or Branch Manager; highest references; disengaged; Prescribing, Extracting, and Photography; unqualified; age 38. "Rhei," 18 Lindum Street, Rusholme, Manchester.

THOROUGHLY competent Assistant, with good references; 43; tall; permanency or Locum; high-class Dispensing experience, London and suburbs; days or half-days entertained. "B," 6 Station Parade, Horn Lane, Acton, W.

QUALIFIED; Manager or Senior; permanency; disengaged middle November; excellent references; Dispensing, Counter, Photography; North-West Counties preferred, not essential. Hodgkinson, 436-Borough Road, Birkenhead.

QUALIFIED Foreign Chemist (24), well up in French, German, and English language, and in International Pharmacy (Paris and Leipzig), wishes a post in an English Pharmacy; highest references; moderate salary. Apply to Nio. Muller, Echternach (Luxembourg).

WHOLESALE.

Trade circulars, samples, and printed matter can in no case be forwarded.

LONDON.—Young man (24) requires trial as Drug Sundriesman. "Anxious," 8 Buer Road, Fulham, S.W.

TRAVELLER (young) requires engagement with good house; town or country; would go abroad; 4 years with last house. 252/32, Office of this Paper.

TRAVELLER (37), experienced, requires engagement with good house, Drugs, Sundries, etc. Stow, 26 Spring View Road, Crookes, Sheffield.

GENTLEMAN; 38; sound connection, North Wales and Midlands, Drugs or Sundries; excellent references. James, 18 Clare Avenue, Hoole, Chester.

P.H.C. (40), single, experience in Wholesale and Retail trade, seeks responsible position in either branch. Address, 235/34, Office of this Paper.

GERMAN Pharmacist desires situation in Wholesale; speaks French fluently, fairly well English; small salary. L. Weiss, 121 Highbury Quadrant, London.

QUALIFIED Chemist (young) desires opening in good Wholesale house; first-class experience in Retail. Full particulars and references, 252/25, Office of this Paper.

NOVEMBER 20; finest Wholesale and Retail experience; highest references; 26; abstainer; capable; any responsible post; house or road. Jackson, 132 Riverdale Road, Plumstead.

TRAVELLER desires additional Agency to share expenses; exceptional connection among Chemists in Scotland; good references. Apply, Barclay, 17 Oswald Street, Glasgow.

YOUNG Chemist seeks post as Assistant; experienced in Foods, Drugs, and Wholesale; small salary; excellent references. "A. C.," 34 Londesboro' Road, Stoke Newington.

CHEMIST'S son; age 19; Dispensing, making and packing stock, capable Pill maker, and Coater by machinery; understands gas engines, etc. "Talc" (253/35), Office of this Paper.

QUALIFIED (28), tall, good Retail and 2 years' Travelling experience, desires position, home or abroad; excellent references; personal interview. 248/18, Office of this Paper.

TRAVELLER, London, representing Sundries firm, good connection, desires another commission, Drugs, Soaps, Perfumery, Brushes, Combs; part expenses. "Quinine" (255/28) Office of this Paper.

TRAVELLER, connection Northern Counties, wishes to communicate with established Drug or Sundries house with view to Representing them. Write, "Progress" (253/3), Office of this Paper.

POSITION of trust desired; Stockkeeper, Buyer, etc.; Wholesale; permanency; 18 years' experience in Drugs, Chemicals, Sundries, Patents, and Perfumery (English and foreign). 253/12, Office of this Paper.

ADVERTISER seeks permanency as Representative to Wholesale house; 18 years' Wholesale and Retail experience; age 32; Lancashire and Yorkshire ground preferred, but not essential. 252/17, Office of this Paper.

TRAVELLER.—Pharmaceutical Chemist, smart, successful business man, active, abstainer, particularly well up Sundries, Drugs, Specialities, Photographics, open post South; or would accept well-known lines commission. 247/21 Office of this Paper.

GENTLEMAN open for additional Agency; at present representing first-class Toilet firm in four Northern Counties and Scotland; has had Retail and Wholesale experience; good personal connection; highest references; part expenses and commission. 253/37, Office of this Paper.

PHARMACIST (48), Commercial, Works, and Laboratory experience, Wholesale and Retail, Medical, Household, Toilet and Agricultural Specialities, own Formulae, seeks position Manager, business or works. Apply further particulars, "M. R. S. I." (247/18), Office of this Paper.

GENTLEMAN, calling upon Doctors, Chemists, etc., requires additional Agency; first-class house-essential; successful interviewer; five years present house; North-western Counties; part expenses and commission. "Santonfa" (252/8), Office of this Paper.

SITUATIONS WANTED

(Colonial, Indian, and Foreign).

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid. Replies addressed to this office will be forwarded to the advertiser for an additional charge of 6d.

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies or elsewhere abroad.

POSITION wanted, Australia, outdoor Assistant or Manager; 37; unqualified; married, no encumbrances; excellent experience; Prescriber. Stow, 26 Spring View Road, Crookes, Sheffield, England.

MISCELLANEOUS.

McADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Telephone 81 Lee Green.

SHARES FOR SALE (free of commission, subject).—20 Apollinaris, £6 12s.; 150 Bais Bros. & Stevenson 5½ per cent. Preference, 12s. 7½d.; 300 John Knight's Soap Ordinary, 24s.; 300 £1 fully-paid Deferred, 21s. 9d. (Dividend last two years Ordinary 8 per cent. per annum, Deferred 9 per cent. per annum); 180 New Transvaal Chemical Co., 47s. (25 per cent. paid yearly since 1905, full year's dividend due January goes to purchaser when declared); 120 A. J. White Ordinary, 1s. 11½d.; 200 Preference, 10s. 11d.; 220 Wright Layman Preference, 20s. 10½d.; 200 Parkes' Drug Ordinary, 2s. 10½d.; 30 6 per cent. Preference, 10s. 3d.; 150 Idris "A" Preference, 5s. 7½d.; 50 Evans Lescher & Webb Preference, £5 2s. 9d.

WANTED (subject).—200 Camwall Preference, 5s. 3d.; Debentures, £34 each; 400 Idris "A" Preference, 4s. 7½d.; 200 G. B. Kent Preference, 16s.; 350 Wright Layman Preference, 19s. 10½d. xd. List of shares for sale and wanted sent free on application. Bankers, London County and Westminster. Established 1898.

COMPLETE second-hand Chemist's Fittings for Sale.—Ranges of Spanish Mahogany Shelving and about 100 Drug Drawers and Cupboards, Mahogany Counter with return end, Dispensing-screen, Wall-case, Perfumery-case and Bent Counter-case; the lot for £45; cost £300; also 3 second-hand Dispensing-screens, at give-away prices. D. Matthews & Son, 14 & 16 Manchester Street, Liverpool.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right and goods are in first-class condition; we shall be pleased to supply particulars and prices. Oall or write, RUDDUCK & CO., 262 Old Street, E.O.

SHOPFITTINGS (equal to new).—13-ft. Drugfitting, with Mahogany and Glass-labelled Drawers, etc.; 12-ft. Mahogany and Plate-glass Serving-counter, with Counter Drawers at back; Mahogany and Plate-glass Perfumery Showcase and Desk; 6-ft. Mahogany and Bent Plate-glass Counter Showcase; 10-ft. handsome Mahogany Wall Showcase; 6-ft. Mahogany and Plate-glass Dispensing-screen and Counter, with Sponge-case; all in excellent condition; price £60; ready for immediate use. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

CHEMISTS' second-hand large Stock of Drug-fittings, Wall-cases, Dispensing-screens, Glass-fronted Counters, Window-enclosures, Mirrors, Window Shelves, Swan-neck Carboys; also complete Fittings for large Drug Stores; cheap to clear; estimates free. H. Mills, Chemists' Up-to-date Shopfitter, Shop-front Builder, Steam Works, 163-5 Old Street, London, E.C. Phone 550 London Wall.

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Private lessons given at Chemists' own residences in the use of the **RETINOSCOPE** and subjective methods of sight testing.

JOHN R. CORNISH, F.S.M.C.,

384 ST. ANN'S ROAD, HARRINGAY, N.

McQUEEN'S System of Accounts for Chemists; works out gross and net profits, balance sheet, and income-tax return with guaranteed certainty; a work well known and considered indispensable by progressive Chemists (Ninth Edition). Full particulars and testimonials, post free, McQueen & Co., Moat Road, E. Leicester.

PRINTING FOR CHEMISTS.—Labels, Wrappers, Lists, Folders, Handbills, Stationery; first-class, up-to-date work at very low prices; it costs you nothing to see samples and get quotations: Handbills from 10,000 10s. 9d.; Prescription-envelopes, 1,000 4s. 3d.; Billheads, Menos, Cards, 1,000 3s. 9d.; all carriage paid. Established 1895. Walter Knight (C.), Printer, Rushden, Norths.

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FOR DISPOSAL.

BOOKS AND PERIODICALS.

WHAT offers, "Pharmaceutical Codex" and "Pharmaceutical Formulas," both good condition? DRING, Teignmouth.
MANUAL Formula B. C.; also Quincey's "Dispensatory," 1741; complete; offers. WEBSTER, West Bromwich.

DENTAL.

SIX dental forceps, plated, good as new; also elevator. "PHARMACIST," 91 Charlwood Street, S.W.

DRUGS AND CHEMICALS.

ERGOT, 20 lb. 1907 crop, hand picked; what offers? 252/1, Office of this Paper.

OIL lavender, Mitcham, season 1900; offers wanted for 30 to 40 1-lb. bottles. MCINTOSH, Nairn, N.B.

MENTHOL, 2½ lb. Kobayashi brand; what offers? WHITE, 90 Barrington Drive, Glasgow W.

WHAT offers?—Six Winchester's oleum lavand. Ang. opt., 7 years old, ex Woolley, Manchester; 3 bottles H.G.H. mint. ASCROFT, Pharmacist, Ince, Wigan.

OPTICAL AND PHOTOGRAPHIC.

OPHTHALMOMETER, in first-class condition; cost £16 16s.; indispensable in astigmatic cases; low figure accepted. MAURICE SMITH, Kidderminster.

SHOP FITTINGS.

TWO show carboys, 26 in., ordinary pear-shape, glass stoppered. ALPE, Wymondham, Norfolk.

MISCELLANEOUS.

1 CWT. finest quality gum tragacanth, Daffy's elixir, Curecan, Grannies' ointment and pills, Mothersill's remedy; what offers? HEATONS, Burnley.

ANALYTICAL balance in case, agate edges, 12-in. beam divided, riders; also box of weights by Becker, 1 mg. to 50 grammes sm. weights under glass. Offers, 14 England Lane, N.W.

WANTED.

"CHEMIST AND DRUGGIST" posted Saturdays. "RADIX," 113 Beech Road Stockport.

MIXER and sifter, or mixer only, hand use, any size, second-hand. 344 Mare Street Hackney.

SMALL case tooth forceps, Squire's "Companion," surplus patents, Spanish juice. WALTON, Cleckheaton.

"YEAR BOOK OF PHARMACY" for 1910, in new condition. "B., 82 Leswin Road, Stoke Newington, London, N.

SUPPOSITORY mould, 15 grains, for 12 or 24; good condition. Price to W. HUCKLEBRIDGE, 115 Ebury Street, London, S.W.

OPTICAL books; Minor, Major Chemists' books; send prepaid for valuation; cash offers per return. GOWER, Bookseller, Waterloo, Liverpool.

WHY THIS INCREDULITY?

For 5½ years I have been increasing Chemists' businesses and profits, and 900 clients say that I am of definite service to them. Many of my original clients have stuck to me all these years, and paid my annual fee 6 times. Surely this system of mine is worth inquiring about. Interviews for out-of-pocket expenses, any distance in Great Britain. Booklet free. Send a postcard to-night.

BERNARD SLACK, 9 King St., Wolverhampton. Nat. Tel. 581.

Society of Chemical Industry.

THE first meeting of the session of the Nottingham Section was held on October 25 at University College. Mr. S. R. Trotman, the city analyst and new Chairman of the Section, delivered an inaugural address on

DAMAGES AND DISCOLORATIONS CAUSED IN LACE-FINISHING.

The speaker stated that there are few problems in connection with the lace-trade which are more difficult to solve than those concerned with the cause of many of the damages and discolorations exhibited by finished goods. They go through so many distinct processes in their life-history that a fault caused in an early stage may not show itself until a later one. After discussing mechanical damages, Mr. Trotman said that those of a purely chemical origin may require also two stages to show themselves. Incomplete removal of the reagents used in one process will sometimes cause interaction with those used in the next. Local overbleaching may occur through the action of undetected metallic oxides acting as catalytic agents. Damage due to acid or chemicals capable of liberating it is only apparent when the goods are dried off or calendered. Faults which may be due to the finishing alone are fairly numerous. Loss of colour or tendering due to the use of faulty starch or glue may occur. Starch is very commonly bleached with sulphurous acid, and sometimes is not properly washed afterwards. Tendering of the cotton may occur from the presence of this acid in other ways. Ultramarine, frequently used as a blueing material, is very sensitive to acids, and the object of its addition in the process may be completely frustrated. Starches, especially thin starches made by an acid process, not only contain dextrin but also dextrose in considerable quantity, which after calendering in the presence of an acid gives rise to caramel and consequently to bad colour. Such a starch was found to contain 6.95 per cent. of dextrose with 0.35 per cent. of acid. Glue and gelatin chiefly act indirectly when the peptone or hydrolysed nitrogen content is high. They are then very liable to mould. Damage may occur through bacterial infection, the goods being left about lying in heaps in the damp and warm atmosphere of the bleaching-yard. The dressing materials in the finishing process may also favour this action. The attention of the Section has already been drawn to a remarkable red mould which had caused a pink discoloration. Softeners, consisting as they commonly do of a soap basis, are liable to give rise to discolorations unless carefully selected. Some proprietary softeners are distinctly acid, and can attack iron, copper, or tin, which, dissolving, give rise to these faults. A softening mixture recently examined contained 0.65 per cent. of tin, and had caused a brownish discoloration on some lace goods. Lead may simulate iron stains, but is more difficult to remove. Aniline stains may be produced by storing goods in the neighbourhood of pieces freshly dyed with aniline black, and are of a rose-pink colour; but it is not safe to conclude that all such pink stains are due to aniline since, in addition to the mould previously mentioned, pink torula certainly and *bacillus prodigiosus* possibly can grow on dressings with the production of a similar colour.

Scottish Section.

The first meeting of the Session was held at the Technical College, Glasgow, on October 24. Professor Thomas Gray, Chairman of the Section, presiding.

BLEACHING FAULTS.

Mr. S. H. Higgins, M.Sc., read a paper on "Bleaching Faults; the Tendering of Linen Fabrics due to Metallic Oxides." The author showed that splashes of oil containing copper in any form coming into contact with the cloth will cause tendering when the fabrics are introduced into the bleaching cistern. Thus the green copper compound often seen about machinery bearings has this effect. If the copper contamination takes place during the spinning process the single yarns are found to be tendered.

Mr. Higgins also read a paper entitled "Effect of the Bleaching Process on the Weight and Strength of Textiles."

POISONING FATALITIES.

EIGHT deaths have been reported as due to poisoning since our issue of last week. In three instances the poison was taken by misadventure.

Carbolic-acid poisoning was responsible for the deaths of Annie Armitage, of Dartford, Georgina Allridge, dress-maker, Hull, and Helen Brame (51), of East Ham. In the case of the last-named the poison was taken accidentally in the form of a lotion; the other two committed suicide.

Laudanum was used for suicidal purposes at Southampton by an Army ex-sergeant named Charles Hawkins Street, and by a Newcastle-on-Tyne joiner named William Edmondson (64).

Mercury Perchloride.—At the inquest on Louis Smith, photographer, Luton, who died by misadventure from the effects of mercurial poisoning, it was stated that deceased had drunk in his dark-room from a teacup containing a solution of mercury bichloride instead of from one containing water which was standing on the table at the same time.

Morphine-poisoning.—At the inquest held at Lambeth on Major Alex. Young Spearman, who died from morphine-poisoning, the jury found that there was not sufficient evidence to show with what intent the drug was taken.

Poisonous Liniment, drunk in mistake for medicine, caused the death of Maria Sarah Tyler (61), the wife of a St. Pancras metal polisher.

COMING EVENTS.

This section of the "C. & D." is reserved for advance notices of meetings or other events which are sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Monday, November 6.

Society of Chemical Industry (London Section), Burlington House, Piccadilly, W., at 8 P.M.: Dr. E. G. Acheson (New York) on "Deflocculation as Affecting Lubrication." [Dr. Acheson is the inventor of lubricants containing deflocculated graphite, etc.]

Tuesday, November 7.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C., at 8 P.M.: Mr. R. Glode Guyer, Ph.C., "Some Observations on the Official Ointments."

Doncaster Association of Pharmacists, Woolpack Hotel, at 8 P.M. Monthly meeting.

Hull Pharmacists' Association, Grosvenor Hotel, Carr Lane, at 9 P.M. Discussion on "Poisons and Poisonous Substances."

Wednesday, November 8.

Newcastle-on-Tyne Chemists' Association, Hôtel Métropole, Clayton Street West, at 8 P.M. Monthly meeting.

Nottingham Pharmaceutical Association, Victoria Hotel, at 9 P.M. Mr. W. J. Uglow Woolcock on "Pharmaceutical Federation."

Manchester Pharmaceutical Association, Victoria Hotel, at 7.30 P.M. "British Pharmaceutical Codex, 1910, and Edinburgh Synopsis of Same."

The Incorporated Society of Pharmacy and Drug-store Proprietors of Great Britain. Annual smoking-concert and presentation to the President (Mr. W. Huntrods) at the Hôtel de Ville, Leeds, at 7.30 P.M. Mr. Councillor Mark Whittaker, of Accrington, will preside. Members desiring complimentary tickets may obtain them on application to Mr. J. B. Clarkson, 115 Elland Road, Leeds.

Thursday, November 9.

West Ham Association of Pharmacists, Earham Hall, Forest Gate, London, E., at 3 P.M. Discussion on "Conditions that might arise in the event of the National Insurance Bill becoming law."

Chemists' Assistants' Association, 73 Newman Street, Oxford Street, London, W., at 9 P.M. Impromptu discussion.

Chemists' and Druggists' Society of Ireland, Shaftesbury Café, Donegall Place, Belfast, at 7.30 P.M. Social evening.

Edinburgh Chemists' Trade Association, 36 York Place, at 9 P.M. Discussion on "A Tariff for Medicines Applicable to the National Insurance Bill," introduced by Messrs. C. F. Henry and C. A. Macpherson.

North Staffordshire Chemists' Association, Roebuck Hotel, Stoke, at 7 P.M. General meeting.

ASSOCIATION OF WOMEN PHARMACISTS.—The seventh annual meeting will be held at 17 Bloomsbury Square, London, W.C., on November 20, when Professor Dixon, M.D., will deliver a lecture on "The Relation of the Pharmacist to Therapeutics."

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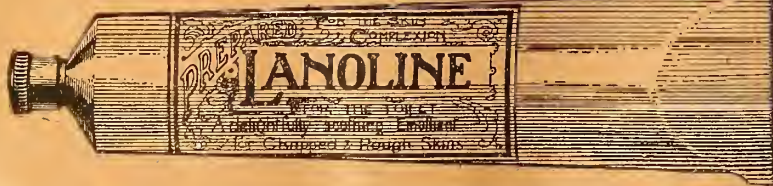
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